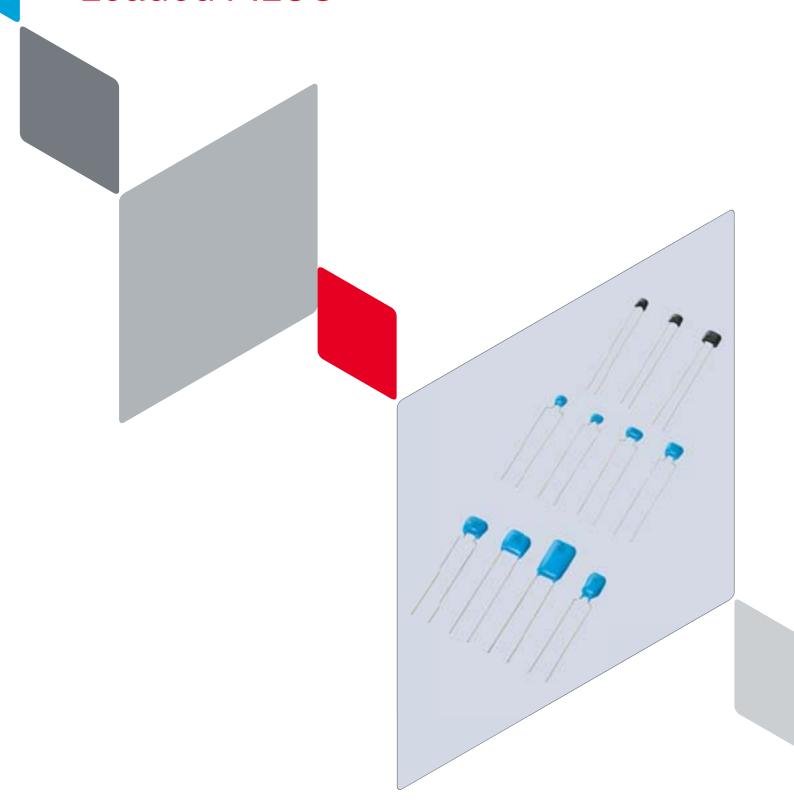
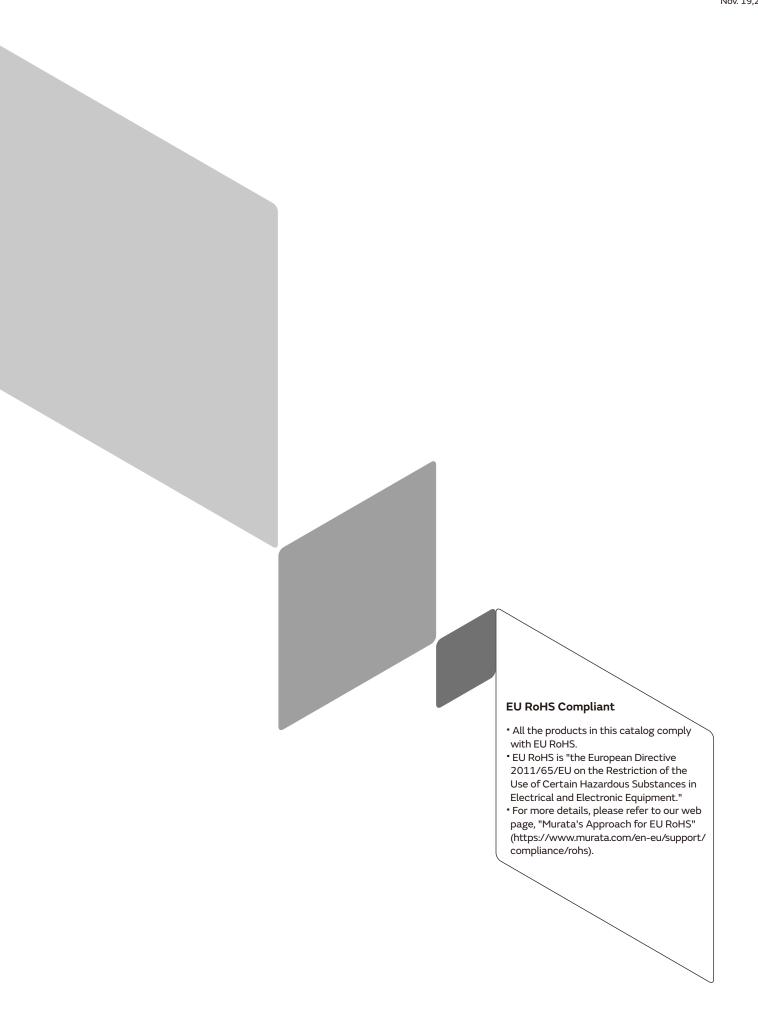


Leaded MLCC





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Product specifications are as of October 2019.

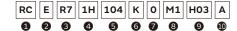
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Please check the MURATA website (https://www.murata.com/) if you cannot find a part number in this catalog.

Part Numbering

Leaded MLCC

(Part Number)



1 Product ID

2 Series

Product ID	Series Code	
RC	E	Leaded MLCC for Automotive
RH	E	150°C Operation Leaded MLCC for Automotive
RH	s	200°C Operation Leaded MLCC for Automotive
RD	E	Leaded MLCC for General Purpose

Temperature Characteristics

Temperatu	ıre Characte	ristic		Temperature Cha	0	
Code	Public S	TD Code	Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	Operating Temperature Range
5C	COG	EIA	25°C	25 to 125°C	0±30ppm/°C	-55 to 125°C
30	Cod	LIA	25 C	-55 to 25°C	0+30/-72ppm/°C	-55 to 125 C
5G	X8G	*1	25°C -	25 to 150°C	0±30ppm/°C	-55 to 150°C
5G	Add	1	25-0	-55 to 25°C	0+30/-72ppm/°C	-55 10 150 °C
				-55 to 25°C	0+30/-72ppm/°C	
7G	CCG	CCG *1	25°C	25 to 125°C	0±30ppm/°C	-55 to 200°C
				125 to 200°C	0+72/-30ppm/°C	
				-55 to 25°C	-750+120/-347ppm/°C	
7 J	7J UNJ		25°C	25 to 125°C	-750±120ppm/°C	-55 to 200°C
				125 to 200°C	-750+347/-120ppm/°C	
7U		EIA	25°C	25 to 125°C*2	-750±120ppm/°C	FF 1 12500
70	U2J	EIA	25°C	-55 to 25°C	-750+120/-347ppm/°C	-55 to 125°C
C7	X7S	EIA	25°C	-55 to 125°C	±22%	-55 to 125°C
D7	X7T	EIA	25°C	-55 to 125°C	+22%, -33%	-55 to 125°C
L8	X8L	*1	25°C	-55 to 150°C	+15%, -40%	-55 to 150°C
R7	X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°C
Q9	X9Q	*1	25°C	-55 to 200°C	+15%, -70%	-55 to 200°C

^{*1} Murata Temperature Characteristic Code.

4Rated Voltage

Code	Rated Voltage
1E	DC25V
1H	DC50V
2A	DC100V
2D	DC200V
2E	DC250V
2W	DC450V
2H	DC500V
2J	DC630V
ЗА	DC1kV

5Capacitance

Expressed by three figures. The unit is pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two numbers. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits.

6Capacitance Tolerance

Code	Capacitance Tolerance
С	±0.25pF
D	±0.5pF
J	±5%
K	±10%
М	±20%

Continued on the following page. 🖊

^{*2} Rated Voltage 100Vdc max: 25 to 85°C

Continued from the preceding page. $\mbox{\ensuremath{\searrow}}$

7Dimensions (LxW)

- (
Code		Dimensions (LxW)					
	RCE Series	3.6×3.5mm max.					
	RHE Series	J.U. J.JIIIII III ax.					
o	RHS Series	3.9×3.5mm max.					
	RDE Series	4.0×3.5mm max. or 5.0×3.5mm max. (Depends on Part Number List)					
	RCE Series	4.0×3.5mm max.					
	RHE Series	4.0×3.5111111111111111111111111111111111111					
1	RHS Series	4.2×3.5mm max.					
	RDE Series	4.5×3.5mm max. or 5.0×3.5mm max. (Depends on Part Number List)					
2		5.5×4.0mm max.					
3		5.5×5.0mm max.					
4		7.5×5.5mm max.					
5	7.5×7.5mm max. (DC630V, DC1kV : 7.5×8.0mm max.)						
U	(DC630V	7.5×12.5mm max. (DC630V, DC1kV : 7.5×13.0mm max.)					
W		5.5×7.5mm max.					

8Lead Style

Code	Lead Style	Lead Spacing
A2	Straight Long	2.5mm
B1	Straight Long	5.0mm
DB/DG	Straight Taping	2.5mm
E1	Straight Taping	5.0mm
K1	Inside Crimp	5.0mm
M1/M2	Inside Crimp Taping	5.0mm
P1	Outside Crimp	2.5mm
S1	Outside Crimp Taping	2.5mm

Individual Specification Code

Expressed by three figures

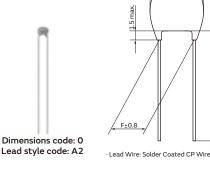
Packaging

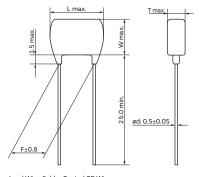
Code	Packaging
Α	Ammo Pack
В	Bulk

Leaded MLCC for Automotive

Features

- 1. Small size and large capacitance
- 2. Low ESR and ESL suitable for high frequency
- 3. Meet AEC-Q200, ISO7637-2 (surge test) requirement
- 4. Meet LF (Lead Free) and HF (Halogen Free)
- 5. Flow soldering and welding are available. (Re-flow soldering is not available.)
- 6. If copper wire is necessary at welding process, copper wire is available based on request.

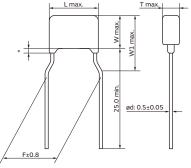




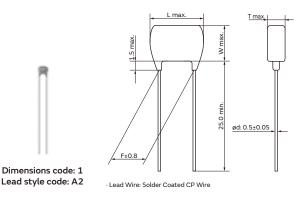
(in mm)

(in mm)



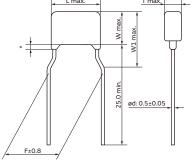


- Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire

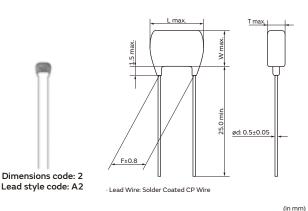


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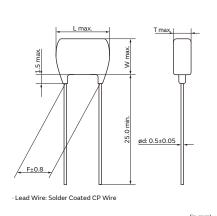




Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire

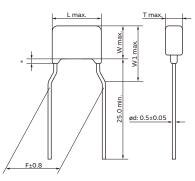




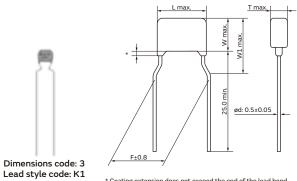


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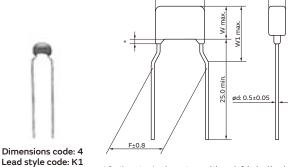




- Coating extension does not exceed the end of the lead bend.
- Lead Wire: Solder Coated CP Wire (in mm)



(in mm)

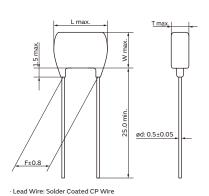


* Coating extension does not exceed the end of the lead bend. \cdot Lead Wire: Solder Coated CP Wire

(in mm)



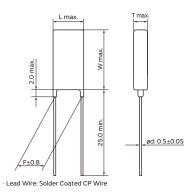
Dimensions code: 5 Lead style code: B1



(in mm)

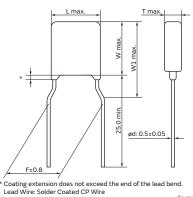


Dimensions code: U Lead style code: B1



(in mm)





Dimensions

	L .6	W 3.5	W1	Т	F	
		25			т.	d
0K1/0M1 3		٥.5	-		2.5	0.5
	.6	3.5	6.0		5.0	0.5
1A2/1DB 4	.0	3.5	-		2.5	0.5
1K1/1M1 4	.0	3.5	5.0		5.0	0.5
2A2/2DB 5	.5	4.0	-	See the individual	2.5	0.5
2K1/2M1 5	.5	4.0	6.0		5.0	0.5
3A2/3DB 5	.5	5.0	-	product specification	2.5	0.5
3K1/3M1 5	.5	5.0	7.5		5.0	0.5
4K1/4M1 7	.5	5.5	8.0		5.0	0.5
5B1/5E1 7	.5	7.5*	-		5.0	0.5
UB1/UE1 7	.7	12.5*	-		5.0	0.5
WK1/WM1 5	.5	7.5	10.0		5.0	0.5

^{*}DC630V, DC1kV: W+0.5mm

Marking

Rated	DC25V		DC50V			DC100V		DC250V	DC630V	DC1kV	
Dimensions Code Temp.	X7R	COG	X7S	X7R	COG	X7S	X7R	>	(7R, U2J, C0	G	
0			-			-		-	-	-	
1	224K	A 102J	[105K]	224K	A 102J	-	(224K)	U 102J (U2J)	-	-	
								(U2J)	(U2J)	(U2J)	
2	(H _{K2C})	563 J5A	(HSC)	(MK5C)	[M] 103 J1A	-	(M) 105 K1C	(X7R)	(X7R)	(X7R)	
								(C0G)	(C0G)	(COG)	
3, 4, W	(M226 K2C)	_	(M106 K5C)	(№335 K5C)	_	(M225 K1C)	_	(U2J)	(U2J)	JAU (U2J)	
5, -,	\\		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					(X7R)	(X7R)	(X7R)	
								-	(U2J)	(U2J)	
5, U	_	_	_	-	_	_	_	(X7R)	(X7R)	(X7R)	
Temperature Characteristics			G char.: A, X7 se refer to th			: U)					
Nominal Capacitance	Under 100	pF: Actual v	alue 100pF	and over: Ma	arked with 3	figures					
Capacitance Tolerance	Under 100pF: Actual value 100pF and over: Marked with 3 figures Marked with code A part is omitted (Please refer to the marking example.)										
Rated Voltage			25V: 2, DC50 se refer to th			V: 4, DC630V	': 7, DC1kV: A	A)			
Manufacturer's Identification	Marked wi		se refer to th	e marking ex	ample.)						

■ Temperature Compensating Type, COG/U2J Characteristics

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCE5C1H1R0C0 H03	COG (EIA)	50Vdc	1.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H1R0C0 H03	COG (EIA)	50Vdc	1.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H2R0C0 H03	COG (EIA)	50Vdc	2.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H2R0C0 H03	COG (EIA)	50Vdc	2.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H3R0C0 H03	COG (EIA)	50Vdc	3.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H3R0C0 H03	COG (EIA)	50Vdc	3.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H4R0C0 H03	COG (EIA)	50Vdc	4.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H4R0C0 H03	COG (EIA)	50Vdc	4.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H5R0C0 H03	COG (EIA)	50Vdc	5.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H5R0C0□□H03□	COG (EIA)	50Vdc	5.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1

Continued from the preceding pa	age. 🔰							
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCE5C1H6R0D0□□H03□	COG (EIA)	50Vdc	6.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H6R0D0□□H03□	COG (EIA)	50Vdc	6.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H7R0D0□□H03□	COG (EIA)	50Vdc	7.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H7R0D0□□H03□	COG (EIA)	50Vdc	7.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H8R0D0□□H03□	COG (EIA)	50Vdc	8.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H8R0D0 H03	COG (EIA)	50Vdc	8.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H9R0D0 H03	COG (EIA)	50Vdc	9.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H9R0D0 H03	COG (EIA)	50Vdc	9.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H100J0 H03	COG (EIA)	50Vdc	10pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H100J0 H03	COG (EIA)	50Vdc	10pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H120J0 H03	COG (EIA)	50Vdc	12pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H120J0 H03	COG (EIA)	50Vdc	12pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H150J0 H03	COG (EIA)	50Vdc	15pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H150J0 H03	COG (EIA)	50Vdc	15pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H180J0 H03	COG (EIA)	50Vdc	18pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H180J0 H03	COG (EIA)	50Vdc	18pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H220J0□□H03□	COG (EIA)	50Vdc	22pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H220J0□□H03□	COG (EIA)	50Vdc	22pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H270J0 H03	COG (EIA)	50Vdc	27pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H270J0□□H03□	COG (EIA)	50Vdc	27pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H330J0□□H03□	COG (EIA)	50Vdc	33pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H330J0□□H03□	COG (EIA)	50Vdc	33pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H390J0□□H03□	COG (EIA)	50Vdc	39pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H390J0□□H03□	COG (EIA)	50Vdc	39pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H470J0 H03	COG (EIA)	50Vdc	47pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H470J0□□H03□	COG (EIA)	50Vdc	47pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H560J0 H03	COG (EIA)	50Vdc	56pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H560J0 H03	COG (EIA)	50Vdc	56pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H680J0 H03	COG (EIA)	50Vdc	68pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H680J0 H03	COG (EIA)	50Vdc	68pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H820J0 H03	COG (EIA)	50Vdc	82pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H820J0 H03	COG (EIA)	50Vdc	82pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H101J0 H03		50Vdc	100pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H101J0 H03 RCE5C1H121J0 H03	COG (EIA)	50Vdc 50Vdc	100pF±5% 120pF±5%	3.6×3.5 3.6×3.5	2.5	5.0 2.5	K1 A2	M1
RCE5C1H121J0 H03	COG (EIA)	50Vdc	120pF±5%	3.6×3.5	2.5	5.0	K1	DB M1
RCE5C1H151J0 H03	COG (EIA)	50Vdc	150pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H151J0 H03	COG (EIA)	50Vdc	150pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H181J0 H03	COG (EIA)	50Vdc	180pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H181J0 H03	COG (EIA)	50Vdc	180pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H221J0 H03	COG (EIA)	50Vdc	220pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H221J0 H03	COG (EIA)	50Vdc	220pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H271J0 H03	COG (EIA)	50Vdc	270pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H271J0 H03	COG (EIA)	50Vdc	270pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H331J0 H03	COG (EIA)	50Vdc	330pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H331J0□□H03□	COG (EIA)	50Vdc	330pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H391J0□□H03□	COG (EIA)	50Vdc	390pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H391J0 H03	COG (EIA)	50Vdc	390pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H471J0 H03	COG (EIA)	50Vdc	470pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H471J0 H03	COG (EIA)	50Vdc	470pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H561J0□□H03□	COG (EIA)	50Vdc	560pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H561J0□□H03□	COG (EIA)	50Vdc	560pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H681J0□□H03□	COG (EIA)	50Vdc	680pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H681J0□□H03□	COG (EIA)	50Vdc	680pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H821J0 H03	COG (EIA)	50Vdc	820pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H821J0 H03	COG (EIA)	50Vdc	820pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H102J0 H03	COG (EIA)	50Vdc	1000pF±5%	3.6×3.5	2.5	2.5	A2	DB

Continued from the preceding pa				Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Temp. Char.	Rated Voltage	Capacitance	LxW	T	F F	Code Bulk	Code
RCE5C1H102J0 H03	COG (EIA)	50Vdc	1000pF±5%	(mm) 3.6×3.5	(mm) 2.5	(mm) 5.0	K1	Taping M1
RCE5C1H122J0 H03	COG (EIA)	50Vdc	1200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H122J0 H03	COG (EIA)	50Vdc	1200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H152J0 H03	COG (EIA)	50Vdc	1500pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H152J0 H03	COG (EIA)	50Vdc	1500pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H182J0 H03	COG (EIA)	50Vdc	1800pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H182J0 H03	COG (EIA)	50Vdc	1800pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H222J0 H03	COG (EIA)	50Vdc	2200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H222J0 H03	COG (EIA)	50Vdc	2200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H272J0 H03	COG (EIA)	50Vdc	2700pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H272J0 H03	COG (EIA)	50Vdc	2700pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H332J0□□H03□	COG (EIA)	50Vdc	3300pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H332J0 H03	COG (EIA)	50Vdc	3300pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H392J0□□H03□	COG (EIA)	50Vdc	3900pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H392J0□□H03□	COG (EIA)	50Vdc	3900pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H472J1□□H03□	COG (EIA)	50Vdc	4700pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H472J1□□H03□	COG (EIA)	50Vdc	4700pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H562J1□□H03□	COG (EIA)	50Vdc	5600pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H562J1□□H03□	COG (EIA)	50Vdc	5600pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H682J1□□H03□	COG (EIA)	50Vdc	6800pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H682J1 H03	COG (EIA)	50Vdc	6800pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H822J1 H03	COG (EIA)	50Vdc	8200pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H822J1 H03	COG (EIA)	50Vdc	8200pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H103J1 H03	COG (EIA)	50Vdc	10000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H103J1 H03	COG (EIA)	50Vdc	10000pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H123J1□□H03□	COG (EIA)	50Vdc	12000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H123J1 H03	COG (EIA)	50Vdc	12000pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H153J1 H03	COG (EIA)	50Vdc	15000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H153J1 H03	COG (EIA)	50Vdc	15000pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H183J1□□H03□	COG (EIA)	50Vdc	18000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H183J1 H03	COG (EIA)	50Vdc	18000pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H223J1□□H03□	COG (EIA)	50Vdc	22000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C1H223J1 H03	COG (EIA)	50Vdc	22000pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C1H273J2 H03	COG (EIA)	50Vdc	27000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H273J2 H03	COG (EIA)	50Vdc	27000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H333J2 H03	COG (EIA)	50Vdc	33000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H333J2 H03	COG (EIA)	50Vdc	33000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H393J2 H03	COG (EIA)	50Vdc	39000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H393J2 H03	COG (EIA)	50Vdc	39000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H473J2 H03	COG (EIA)	50Vdc	47000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H473J2 H03	COG (EIA)	50Vdc	47000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H563J2 H03	COG (EIA)	50Vdc	56000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H563J2 H03	COG (EIA)	50Vdc	56000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H683J2 H03	COG (EIA)	50Vdc	68000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H683J2 H03	COG (EIA)	50Vdc	68000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H823J2 H03	COG (EIA)	50Vdc	82000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C1H823J2 H03	COG (EIA)	50Vdc	82000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C1H104J2 H03	COG (EIA)	50Vdc	0.1µF±5%	5.5×4.0	3.15	2.5	A2	DB M1
RCE5C1H104J2 H03	COG (EIA)	50Vdc	0.1µF±5%	5.5×4.0	3.15 2.5	5.0	K1	M1
RCE5C2A1R0C0 H03	COG (EIA)	100Vdc	1.0pF±0.25pF	3.6×3.5		2.5	A2	DB M1
RCE5C2A1R0C0 H03	COG (EIA)	100Vdc 100Vdc	1.0pF±0.25pF	3.6×3.5	2.5	5.0 2.5	K1	M1 DB
RCE5C2A2ROCO HO3	COG (EIA)	100Vdc	2.0pF±0.25pF	3.6×3.5 3.6×3.5	2.5	5.0	A2 K1	DB M1
RCE5C2A2ROCO H03 RCE5C2A3ROCO H03	COG (EIA)	100Vdc	2.0pF±0.25pF	3.6×3.5 3.6×3.5	2.5	2.5	A2	DB
RCE5C2A3R0C0 H03	COG (EIA)	100Vdc	3.0pF±0.25pF 3.0pF±0.25pF	3.6×3.5 3.6×3.5	2.5	5.0	K1	M1
RCE5C2A4R0C0 H03	COG (EIA)	100Vdc	4.0pF±0.25pF	3.6×3.5 3.6×3.5	2.5	2.5	A2	DB
RCE5C2A4ROCO HO3	COG (EIA)	100Vdc	4.0pF±0.25pF 4.0pF±0.25pF	3.6×3.5 3.6×3.5	2.5	5.0	K1	M1
RCESCZA4RUCUHU3_	COG (EIA)	100.400	4.0pr±0.25pF	3.0×3.5	2.5	5.0	L/T	1,17

Continued from the preceding pa	age. 🔰							
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCE5C2A5R0C0 H03	COG (EIA)	100Vdc	5.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A5R0C0 H03	COG (EIA)	100Vdc	5.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A6R0D0□□H03□	COG (EIA)	100Vdc	6.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A6R0D0□□H03□	COG (EIA)	100Vdc	6.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A7R0D0□□H03□	COG (EIA)	100Vdc	7.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A7R0D0 H03	COG (EIA)	100Vdc	7.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A8R0D0□□H03□	COG (EIA)	100Vdc	8.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A8R0D0□□H03□	COG (EIA)	100Vdc	8.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A9R0D0□□H03□	COG (EIA)	100Vdc	9.0pF±0.5pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A9R0D0□□H03□	COG (EIA)	100Vdc	9.0pF±0.5pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A100J0 H03	COG (EIA)	100Vdc	10pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A100J0 H03	COG (EIA)	100Vdc	10pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A120J0□□H03□	COG (EIA)	100Vdc	12pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A120J0□□H03□	COG (EIA)	100Vdc	12pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A150J0□□H03□	COG (EIA)	100Vdc	15pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A150J0□□H03□	COG (EIA)	100Vdc	15pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A180J0□□H03□	COG (EIA)	100Vdc	18pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A180J0□□H03□	COG (EIA)	100Vdc	18pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A220J0 H03	COG (EIA)	100Vdc	22pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A220J0 H03	COG (EIA)	100Vdc	22pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A270J0 H03	COG (EIA)	100Vdc	27pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A270J0 H03	COG (EIA)	100Vdc	27pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A330J0 H03	COG (EIA)	100Vdc	33pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A330J0 H03	COG (EIA)	100Vdc	33pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A390J0 H03	COG (EIA)	100Vdc	39pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A390J0 H03	COG (EIA)	100Vdc	39pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A470J0 H03	COG (EIA)	100Vdc	47pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A470J0 H03	COG (EIA)	100Vdc 100Vdc	47pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A560J0 H03 RCE5C2A560J0 H03	COG (EIA)	100Vdc	56pF±5% 56pF±5%	3.6×3.5 3.6×3.5	2.5	2.5 5.0	A2 K1	DB M1
RCE5C2A680J0 H03	COG (EIA)	100Vdc	68pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A680J0 H03	COG (EIA)	100Vdc	68pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A820J0 H03	COG (EIA)	100Vdc	82pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A820J0 H03	COG (EIA)	100Vdc	82pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A101J0 H03	COG (EIA)	100Vdc	100pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A101J0 H03	COG (EIA)	100Vdc	100pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A121J0□□H03□	COG (EIA)	100Vdc	120pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A121J0 H03	COG (EIA)	100Vdc	120pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A151J0 H03	COG (EIA)	100Vdc	150pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A151J0 H03	COG (EIA)	100Vdc	150pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A181J0 H03	COG (EIA)	100Vdc	180pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A181J0 H03	COG (EIA)	100Vdc	180pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A221J0□□H03□	COG (EIA)	100Vdc	220pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A221J0□□H03□	COG (EIA)	100Vdc	220pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A271J0□□H03□	COG (EIA)	100Vdc	270pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A271J0□□H03□	COG (EIA)	100Vdc	270pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A331J0□□H03□	COG (EIA)	100Vdc	330pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A331J0 H03	COG (EIA)	100Vdc	330pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A391J0□□H03□	COG (EIA)	100Vdc	390pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A391J0 H03	COG (EIA)	100Vdc	390pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A471J0 H03	COG (EIA)	100Vdc	470pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A471J0 H03	COG (EIA)	100Vdc	470pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A561J0 H03	COG (EIA)	100Vdc	560pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A561J0 H03	COG (EIA)	100Vdc	560pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A681J0 H03	COG (EIA)	100Vdc	680pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A681J0 H03	COG (EIA)	100Vdc	680pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A821J0 H03	COG (EIA)	100Vdc	820pF±5%	3.6×3.5	2.5	2.5	A2	DB

Continued from the preceding pa				Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Temp. Char.	Rated Voltage	Capacitance	LxW	Т	F F	Code	Code
			920pF+F9/	(mm)	(mm) 2.5	(mm)	Bulk	Taping M1
RCE5C2A821J0 H03	COG (EIA)	100Vdc 100Vdc	820pF±5%	3.6×3.5 3.6×3.5	2.5	5.0 2.5	K1 A2	DB
RCE5C2A102J0 H03 RCE5C2A102J0 H03	COG (EIA)	100Vdc	1000pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A122J0 H03	COG (EIA)	100Vdc	1000pF±5% 1200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A122J0 H03	COG (EIA)	100Vdc	1200pF±5% 1200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A152J0 H03	COG (EIA)	100Vdc	1500pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A152J0 H03	COG (EIA)	100Vdc	1500pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A182J1 H03	COG (EIA)	100Vdc	1800pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C2A182J1 H03	COG (EIA)	100Vdc	1800pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C2A222J1 H03	COG (EIA)	100Vdc	2200pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C2A222J1 H03	COG (EIA)	100Vdc	2200pr±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C2A272J1 H03	COG (EIA)	100Vdc	2700pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C2A272J1 H03	COG (EIA)	100Vdc	2700pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C2A332J1 H03	COG (EIA)	100Vdc	3300pF±5%	4.0×3.5	2.5	2.5	A2	DB
RCE5C2A332J1 H03	COG (EIA)	100Vdc	3300pF±5%	4.0×3.5	2.5	5.0	K1	M1
RCE5C2A392J2 H03	COG (EIA)	100Vdc	3900pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C2A392J2 H03	COG (EIA)	100Vdc	3900pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2A472J2 H03	COG (EIA)	100Vdc	4700pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C2A472J2 H03	COG (EIA)	100Vdc	4700pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2A562J2 H03	COG (EIA)	100Vdc	5600pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C2A562J2 H03	COG (EIA)	100Vdc	5600pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2A682J2 H03	COG (EIA)	100Vdc	6800pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C2A682J2 H03	COG (EIA)	100Vdc	6800pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2A822J2 H03	COG (EIA)	100Vdc	8200pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C2A822J2 H03	COG (EIA)	100Vdc	8200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2A103J2 H03	COG (EIA)	100Vdc	10000pF±5%	5.5×4.0	3.15	2.5	A2	DB
RCE5C2A103J2 H03	COG (EIA)	100Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E100J2 H03	COG (EIA)	250Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E120J2 H03	COG (EIA)	250Vdc	12pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E150J2 H03	COG (EIA)	250Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E180J2 H03	COG (EIA)	250Vdc	18pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E220J2 H03	COG (EIA)	250Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E270J2 H03	COG (EIA)	250Vdc	27pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E330J2 H03	COG (EIA)	250Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E390J2 H03	COG (EIA)	250Vdc	39pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E470J2 H03	COG (EIA)	250Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E560J2□□H03□	COG (EIA)	250Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E680J2□□H03□	COG (EIA)	250Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E820J2 H03	COG (EIA)	250Vdc	82pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E101J2 H03	COG (EIA)	250Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E121J2□□H03□	COG (EIA)	250Vdc	120pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E151J2 H03	COG (EIA)	250Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E181J2□□H03□	COG (EIA)	250Vdc	180pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E221J2□□H03□	COG (EIA)	250Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E271J2 H03	COG (EIA)	250Vdc	270pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E331J2 H03	COG (EIA)	250Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E391J2□□H03□	COG (EIA)	250Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E471J2□□H03□	COG (EIA)	250Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E561J2 H03	COG (EIA)	250Vdc	560pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E681J2 H03	COG (EIA)	250Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E821J2 H03	COG (EIA)	250Vdc	820pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E102J2 H03	COG (EIA)	250Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E122J2□□H03□	COG (EIA)	250Vdc	1200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E152J2□□H03□	COG (EIA)	250Vdc	1500pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E182J2□□H03□	COG (EIA)	250Vdc	1800pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E222J2 H03	COG (EIA)	250Vdc	2200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E272J2 H03	COG (EIA)	250Vdc	2700pF±5%	5.5×4.0	3.15	5.0	K1	M1
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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCE5C2E332J2 H03	COG (EIA)	250Vdc	3300pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E392J2 H03	COG (EIA)	250Vdc	3900pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E472J2 H03	COG (EIA)	250Vdc	4700pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E562J2 H03	COG (EIA)	250Vdc	5600pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E682J2□□H03□	COG (EIA)	250Vdc	6800pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E822J2 H03	COG (EIA)	250Vdc	8200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E103J2 H03	COG (EIA)	250Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E123J2 H03	COG (EIA)	250Vdc	12000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2E153J2 H03	COG (EIA)	250Vdc	15000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J100J2 H03	COG (EIA)	630Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J120J2 H03	COG (EIA)	630Vdc	12pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J150J2 H03	COG (EIA)	630Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J180J2□□H03□	COG (EIA)	630Vdc	18pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J220J2 H03	COG (EIA)	630Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J270J2 H03	COG (EIA)	630Vdc	27pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J330J2 H03	COG (EIA)	630Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J390J2 H03	COG (EIA)	630Vdc	39pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J470J2 H03	COG (EIA)	630Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J560J2 H03	COG (EIA)	630Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J680J2 H03	COG (EIA)	630Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J820J2 H03	COG (EIA)	630Vdc	82pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J101J2 H03	COG (EIA)	630Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J121J2 H03	COG (EIA)	630Vdc	120pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J151J2 H03	COG (EIA)	630Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J181J2□□H03□	COG (EIA)	630Vdc	180pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J221J2□□H03□	COG (EIA)	630Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J271J2 H03	COG (EIA)	630Vdc	270pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J331J2□□H03□	COG (EIA)	630Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J391J2□□H03□	COG (EIA)	630Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J471J2 H03	COG (EIA)	630Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J561J2□□H03□	COG (EIA)	630Vdc	560pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J681J2□□H03□	COG (EIA)	630Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J821J2□□H03□	COG (EIA)	630Vdc	820pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J102J2 H03	COG (EIA)	630Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J122J2 H03	COG (EIA)	630Vdc	1200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J152J2 H03	COG (EIA)	630Vdc	1500pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J182J2 H03	COG (EIA)	630Vdc	1800pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J222J2 H03	COG (EIA)	630Vdc	2200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J272J2 H03	COG (EIA)	630Vdc	2700pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2J332J2 H03	COG (EIA)	630Vdc	3300pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A100J2 H03	COG (EIA)	1000Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A120J2 H03	COG (EIA)	1000Vdc	12pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A150J2 H03	COG (EIA)	1000Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A180J2 H03	COG (EIA)	1000Vdc	18pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A220J2 H03	COG (EIA)	1000Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A270J2 H03	COG (EIA)	1000Vdc	27pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A330J2 H03	COG (EIA)	1000Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A390J2 H03	COG (EIA)	1000Vdc	39pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A470J2 H03	COG (EIA)	1000Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A560J2 H03	COG (EIA)	1000Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A680J2 H03	COG (EIA)	1000Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A820J2 H03 RCE5C3A101J2 H03	COG (EIA)	1000Vdc 1000Vdc	82pF±5%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1	M1
RCE5C3A101J2 H03	COG (EIA)	1000Vdc	100pF±5% 120pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M1 M1
RCE5C3A151J2 H03	COG (EIA)	1000Vdc	150pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1
RCE5C3A181J2 H03	COG (EIA)	1000Vdc	180pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A221J2 H03	COG (EIA)	1000Vdc	220pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1
RCLJCJAZZIJZ	COG (EIA)	1000,400	220hL±2%	J.3×4.U	3.13	5.0	I/T	1,17

Continued from the preceding pa				Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Temp. Char.	Rated Voltage	Capacitance	LxW	T	F F	Code	Code
DCEEC3A371 I3□□U03□			270pF+F9/	(mm)	(mm)	(mm)	Bulk	Taping
RCE5C3A271J2 H03	COG (EIA)	1000Vdc	270pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A331J2 H03	COG (EIA)	1000Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A391J2 H03	COG (EIA)	1000Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A471J2 H03	COG (EIA)	1000Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A561J2 H03	COG (EIA)	1000Vdc	560pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A681J2 H03	COG (EIA)	1000Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A821J2 H03	COG (EIA)	1000Vdc	820pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A102J2 H03	COG (EIA)	1000Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2E101J1 H03	U2J (EIA)	250Vdc	100pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E151J1 H03	U2J (EIA)	250Vdc	150pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E221J1 H03	U2J (EIA)	250Vdc	220pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E331J1 H03	U2J (EIA)	250Vdc	330pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E471J1 H03	U2J (EIA)	250Vdc	470pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E681J1 H03	U2J (EIA)	250Vdc	680pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E102J1 H03	U2J (EIA)	250Vdc	1000pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E152J1 H03	U2J (EIA)	250Vdc	1500pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E222J1□□H03□	U2J (EIA)	250Vdc	2200pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E332J1□□H03□	U2J (EIA)	250Vdc	3300pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E472J1□□H03□	U2J (EIA)	250Vdc	4700pF±5%	4.0×3.5	3.15	5.0	K1	M1
RCE7U2E682J2□□H03□	U2J (EIA)	250Vdc	6800pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2E103J2□□H03□	U2J (EIA)	250Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J100J2 H03	U2J (EIA)	630Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J150J2 H03	U2J (EIA)	630Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J220J2 H03	U2J (EIA)	630Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J330J2 H03	U2J (EIA)	630Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J470J2 H03	U2J (EIA)	630Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J680J2□□H03□	U2J (EIA)	630Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J101J2 H03	U2J (EIA)	630Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J151J2 H03	U2J (EIA)	630Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J221J2□□H03□	U2J (EIA)	630Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J331J2□□H03□	U2J (EIA)	630Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J471J2□□H03□	U2J (EIA)	630Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J681J2□□H03□	U2J (EIA)	630Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J102J2□□H03□	U2J (EIA)	630Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J152J2□□H03□	U2J (EIA)	630Vdc	1500pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J222J2□□H03□	U2J (EIA)	630Vdc	2200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J332J2□□H03□	U2J (EIA)	630Vdc	3300pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J472J2□□H03□	U2J (EIA)	630Vdc	4700pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U2J682J3□□H03□	U2J (EIA)	630Vdc	6800pF±5%	5.5×5.0	4.0	5.0	K1	M1
RCE7U2J103J3 H03	U2J (EIA)	630Vdc	10000pF±5%	5.5×5.0	4.0	5.0	K1	M1
RCE7U2J153J4□□H03□	U2J (EIA)	630Vdc	15000pF±5%	7.5×5.5	4.0	5.0	K1	M1
RCE7U2J223J4 H03	U2J (EIA)	630Vdc	22000pF±5%	7.5×5.5	4.0	5.0	K1	M1
RCE7U2J333J5 H03	U2J (EIA)	630Vdc	33000pF±5%	7.5×8.0	4.0	5.0	B1	E1
RCE7U2J473J5□□H03□	U2J (EIA)	630Vdc	47000pF±5%	7.5×8.0	4.0	5.0	B1	E1
RCE7U2J943JU□□H03□	U2J (EIA)	630Vdc	94000pF±5%	7.7×13.0	4.0	5.0	B1	E1
RCE7U3A100J2 H03	U2J (EIA)	1000Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A150J2□□H03□	U2J (EIA)	1000Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A220J2 H03	U2J (EIA)	1000Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A330J2 H03	U2J (EIA)	1000Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A470J2 H03	U2J (EIA)	1000Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A680J2□□H03□	U2J (EIA)	1000Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A101J2 H03	U2J (EIA)	1000Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A151J2 H03	U2J (EIA)	1000Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A221J2 H03	U2J (EIA)	1000Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A331J2 H03	U2J (EIA)	1000Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A471J2 H03	U2J (EIA)	1000Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A681J2 H03	U2J (EIA)	1000Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
	023 (LIA)	1000 vuc	000pi ±3 /6	3.3^7.0	J.13	3.0		114

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCE7U3A102J2□□H03□	U2J (EIA)	1000Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE7U3A152J3□□H03□	U2J (EIA)	1000Vdc	1500pF±5%	5.5×5.0	4.0	5.0	K1	M1
RCE7U3A222J3□□H03□	U2J (EIA)	1000Vdc	2200pF±5%	5.5×5.0	4.0	5.0	K1	M1
RCE7U3A332J4□□H03□	U2J (EIA)	1000Vdc	3300pF±5%	7.5×5.5	4.0	5.0	K1	M1
RCE7U3A472J4□□H03□	U2J (EIA)	1000Vdc	4700pF±5%	7.5×5.5	4.0	5.0	K1	M1
RCE7U3A682J5 H03	U2J (EIA)	1000Vdc	6800pF±5%	7.5×8.0	4.0	5.0	B1	E1
RCE7U3A103J5 H03	U2J (EIA)	1000Vdc	10000pF±5%	7.5×8.0	4.0	5.0	B1	E1
RCE7U3A203JU□□H03□	U2J (EIA)	1000Vdc	20000pF±5%	7.7×13.0	4.0	5.0	B1	E1

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code.

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCER71E104K0□□H03□	X7R (EIA)	25Vdc	0.1µF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71E104K0□□H03□	X7R (EIA)	25Vdc	0.1µF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71E154K0□□H03□	X7R (EIA)	25Vdc	0.15µF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71E154K0□□H03□	X7R (EIA)	25Vdc	0.15µF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71E224K0□□H03□	X7R (EIA)	25Vdc	0.22µF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71E224K0□□H03□	X7R (EIA)	25Vdc	0.22µF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71E334K1□□H03□	X7R (EIA)	25Vdc	0.33µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71E334K1□□H03□	X7R (EIA)	25Vdc	0.33µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71E474K1□□H03□	X7R (EIA)	25Vdc	0.47µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71E474K1□□H03□	X7R (EIA)	25Vdc	0.47µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71E684K1□□H03□	X7R (EIA)	25Vdc	0.68µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71E684K1□□H03□	X7R (EIA)	25Vdc	0.68µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71E105K1□□H03□	X7R (EIA)	25Vdc	1.0µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71E105K1□□H03□	X7R (EIA)	25Vdc	1.0µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71E155K2□□H03□	X7R (EIA)	25Vdc	1.5µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71E155K2□□H03□	X7R (EIA)	25Vdc	1.5µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71E225K2□□H03□	X7R (EIA)	25Vdc	2.2µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71E225K2□□H03□	X7R (EIA)	25Vdc	2.2µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71E335K2□□H03□	X7R (EIA)	25Vdc	3.3µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71E335K2□□H03□	X7R (EIA)	25Vdc	3.3µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71E475K2□□H03□	X7R (EIA)	25Vdc	4.7µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71E475K2□□H03□	X7R (EIA)	25Vdc	4.7µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71E106K3□□H03□	X7R (EIA)	25Vdc	10μF±10%	5.5×5.0	4.0	2.5	A2	DB
RCER71E106K3□□H03□	X7R (EIA)	25Vdc	10μF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER71E226MW□□H03□	X7R (EIA)	25Vdc	22μF±20%	5.5×7.5	4.0	5.0	K1	M1
RCER71H221K0□□H03□	X7R (EIA)	50Vdc	220pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H221K0□□H03□	X7R (EIA)	50Vdc	220pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H331K0□□H03□	X7R (EIA)	50Vdc	330pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H331K0□□H03□	X7R (EIA)	50Vdc	330pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H471K0□□H03□	X7R (EIA)	50Vdc	470pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H471K0 H03	X7R (EIA)	50Vdc	470pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H681K0 H03	X7R (EIA)	50Vdc	680pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H681K0 H03	X7R (EIA)	50Vdc	680pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H102K0 H03	X7R (EIA)	50Vdc	1000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H102K0 H03	X7R (EIA)	50Vdc	1000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H152K0 H03	X7R (EIA)	50Vdc	1500pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H152K0 H03	X7R (EIA)	50Vdc	1500pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H222K0 H03	X7R (EIA)	50Vdc	2200pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H222K0 H03	X7R (EIA)	50Vdc	2200pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H332K0 H03	X7R (EIA)	50Vdc	3300pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H332K0 H03	X7R (EIA)	50Vdc	3300pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H472K0□□H03□	X7R (EIA)	50Vdc	4700pF±10%	3.6×3.5	2.5	2.5	A2	DB

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack) $\,$

Part Number Char Valence Capacitance LxW T F		ıd Style
Char. Voltage (mm) (mm) (mm) I		Code
POEDZ11473KOTTUOZT VZD (FIA) FOV/d- 4700×F-100/ 2.6.2.F 2.F	i i	aping
RCER71H472K0 H03 X7R (EIA) 50Vdc 4700pF±10% 3.6×3.5 2.5 5.0		M1 DB
RCER71H682K0 H03 X7R (EIA) 50Vdc 6800pF±10% 3.6×3.5 2.5 2.5		
RCER71H682K0 H03 X7R (EIA) 50Vdc 6800pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H103K0 H03 X7R (EIA) 50Vdc 10000pF±10% 3.6×3.5 2.5 2.5		DB
RCER71H103K0 H03 X7R (EIA) 50Vdc 10000pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H153KO H03 X7R (EIA) 50Vdc 15000pF±10% 3.6×3.5 2.5 2.5		DB
RCER71H153KO□□H03□ X7R (EIA) 50Vdc 15000pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H223K0□□H03□ X7R (EIA) 50Vdc 22000pF±10% 3.6×3.5 2.5 2.5		DB
RCER71H223K0□□H03□ X7R (EIA) 50Vdc 22000pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H333KO□□H03□ X7R (EIA) 50Vdc 33000pF±10% 3.6×3.5 2.5 2.5		DB
RCER71H333KO□□H03□ X7R (EIA) 50Vdc 33000pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H473KO□□H03□ X7R (EIA) 50Vdc 47000pF±10% 3.6×3.5 2.5 2.5		DB
RCER71H473KO□□H03□ X7R (EIA) 50Vdc 47000pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H683KO□□H03□ X7R (EIA) 50Vdc 68000pF±10% 3.6×3.5 2.5 2.5		DB
RCER71H683KO□□H03□ X7R (EIA) 50Vdc 68000pF±10% 3.6×3.5 2.5 5.0		M1
RCER71H104K0□ H03□ X7R (EIA) 50Vdc 0.10µF±10% 3.6×3.5 2.5 2.5		DB
RCER71H104K0□□H03□ X7R (EIA) 50Vdc 0.10µF±10% 3.6×3.5 2.5 5.0		M1
RCER71H154K1□□H03□ X7R (EIA) 50Vdc 0.15µF±10% 4.0×3.5 2.5 2.5		DB
RCER71H154K1□□H03□ X7R (EIA) 50Vdc 0.15µF±10% 4.0×3.5 2.5 5.0		M1
RCER71H224K1□□H03□ X7R (EIA) 50Vdc 0.22µF±10% 4.0×3.5 2.5 2.5		DB
RCER71H224K1 □ H03 □ X7R (EIA) 50Vdc 0.22μF±10% 4.0×3.5 2.5 5.0		M1
RCER71H334K1□□H03□ X7R (EIA) 50Vdc 0.33µF±10% 4.0×3.5 2.5 2.5		DB
RCER71H334K1□□H03□ X7R (EIA) 50Vdc 0.33µF±10% 4.0×3.5 2.5 5.0		M1
RCER71H474K1		DB
RCER71H474K1		M1
RCER71H684K2 H03 X7R (EIA) 50Vdc 0.68µF±10% 5.5×4.0 3.15 2.5		DB
RCER71H684K2 H03 X7R (EIA) 50Vdc 0.68µF±10% 5.5×4.0 3.15 5.0		M1
RCEC71H105K1□□H03□ X7S (EIA) 50Vdc 1.0μF±10% 4.0×3.5 2.5 2.5 RCEC71H105K1□□H03□ X7S (EIA) 50Vdc 1.0μF±10% 4.0×3.5 2.5 5.0		DB M1
RCEC71H105K1□□H03□ X7S (EIA) 50Vdc 1.0μF±10% 4.0×3.5 2.5 5.0 RCER71H105K2□□H03□ X7R (EIA) 50Vdc 1.0μF±10% 5.5×4.0 3.15 2.5		M1 DB
RCER71H105K2□□H03□ X7R (EIA) 50Vdc 1.0μF±10% 5.5×4.0 3.15 5.0		<u></u> М1
RCER71H155K2□□H03□ X7R (EIA) 50Vdc 1.5µF±10% 5.5×4.0 3.15 2.5		DB
		M1
RCER71H225K2□□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 2.5		DB
RCER71H225K2□□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0		M1
RCER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µF±10% 5.5×5.0 4.0 2.5		DB
RCER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µF±10% 5.5×5.0 4.0 5.0		M1
RCEC71H475K2□□H03□ X7S (EIA) 50Vdc 4.7μF±10% 5.5×4.0 3.15 2.5		DB
RCEC71H475K2□□H03□ X7S (EIA) 50Vdc 4.7μF±10% 5.5×4.0 3.15 5.0	K1	M1
RCER71H475K3□□H03□ X7R (EIA) 50Vdc 4.7μF±10% 5.5×5.0 4.0 2.5	A2	DB
RCER71H475K3□□H03□ X7R (EIA) 50Vdc 4.7μF±10% 5.5×5.0 4.0 5.0	K1	M1
RCEC71H106K3□□H03□ X7S (EIA) 50Vdc 10μF±10% 5.5×5.0 4.0 2.5	A2	DB
RCEC71H106K3	K1	M1
RCER71H106MW □□ H03 □ X7R (EIA) 50Vdc 10μF±20% 5.5×7.5 4.0 5.0	K1	M1
RCEC71H226MW□□H03□ X7S (EIA) 50Vdc 22μF±20% 5.5×7.5 4.0 5.0	K1	M1
RCER72A221KO□□H03□ X7R (EIA) 100Vdc 220pF±10% 3.6×3.5 2.5 2.5	A2	DB
RCER72A221KO□□H03□ X7R (EIA) 100Vdc 220pF±10% 3.6×3.5 2.5 5.0	K1	M1
RCER72A331K0□□H03□ X7R (EIA) 100Vdc 330pF±10% 3.6×3.5 2.5 2.5	A2	DB
RCER72A331K0□□H03□ X7R (EIA) 100Vdc 330pF±10% 3.6×3.5 2.5 5.0	K1	M1
RCER72A471K0□□H03□ X7R (EIA) 100Vdc 470pF±10% 3.6×3.5 2.5 2.5	A2	DB
RCER72A471K0□□H03□ X7R (EIA) 100Vdc 470pF±10% 3.6×3.5 2.5 5.0	K1	M1
RCER72A681K0□□H03□ X7R (EIA) 100Vdc 680pF±10% 3.6×3.5 2.5 2.5	A2	DB
RCER72A681K0□□H03□ X7R (EIA) 100Vdc 680pF±10% 3.6×3.5 2.5 5.0	K1	M1
RCER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 3.6×3.5 2.5 2.5	A2	DB
RCER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 3.6×3.5 2.5 5.0	K1	M1
RCER72A152KO□□H03□ X7R (EIA) 100Vdc 1500pF±10% 3.6×3.5 2.5 2.5	A2	DB
RCER72A152K0□□H03□ X7R (EIA) 100Vdc 1500pF±10% 3.6×3.5 2.5 5.0	K1	M1

Continued from the preceding page. 🖫								
Part Number	Temp.	Rated	Capacitance	Dimensions LxW	Dimension T	Lead Space F	Lead Style Code	Lead Style Code
	Char.	Voltage		(mm)	(mm)	(mm)	Bulk	Taping
RCER72A222K0□□H03□	X7R (EIA)	100Vdc	2200pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A222K0□□H03□	X7R (EIA)	100Vdc	2200pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A332K0□□H03□	X7R (EIA)	100Vdc	3300pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A332K0□□H03□	X7R (EIA)	100Vdc	3300pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A472K0□□H03□	X7R (EIA)	100Vdc	4700pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A472K0 H03	X7R (EIA)	100Vdc	4700pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A682K0 H03	X7R (EIA)	100Vdc	6800pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A682K0 H03	X7R (EIA)	100Vdc	6800pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A103K0 H03	X7R (EIA)	100Vdc	10000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A103K0 H03	X7R (EIA)	100Vdc	10000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A153K0 H03	X7R (EIA)	100Vdc	15000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A153K0 H03	X7R (EIA)	100Vdc	15000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A223K0□□H03□ RCER72A223K0□□H03□	X7R (EIA)	100Vdc 100Vdc	22000pF±10%	3.6×3.5 3.6×3.5	2.5	2.5 5.0	A2 K1	DB M1
RCER72A333K1 H03	X7R (EIA) X7R (EIA)	100Vdc	22000pF±10% 33000pF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER72A333K1 H03	X7R (EIA)	100Vdc	33000pF±10%	4.0×3.5 4.0×3.5	2.5	5.0	K1	M1
RCER72A473K1 H03	X7R (EIA)	100Vdc	47000pF±10%	4.0×3.5 4.0×3.5	2.5	2.5	A2	DB
RCER72A473K1 H03	X7R (EIA)	100Vdc	47000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER72A683K1 H03	X7R (EIA)	100Vdc	68000pF±10%	4.0×3.5 4.0×3.5	2.5	2.5	A2	DB
RCER72A683K1 H03	X7R (EIA)	100Vdc	68000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER72A104K1 H03	X7R (EIA)	100Vdc	0.10µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER72A104K1 H03	X7R (EIA)	100Vdc	0.10µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER72A154K2 H03	X7R (EIA)	100Vdc	0.15µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER72A154K2□□H03□	X7R (EIA)	100Vdc	0.15µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72A224K2□□H03□	X7R (EIA)	100Vdc	0.22µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER72A224K2□□H03□	X7R (EIA)	100Vdc	0.22µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72A334K1□□H03□	X7R (EIA)	100Vdc	0.33µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER72A334K1□□H03□	X7R (EIA)	100Vdc	0.33µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER72A474K2□□H03□	X7R (EIA)	100Vdc	0.47µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER72A474K2□□H03□	X7R (EIA)	100Vdc	0.47µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72A684K2□□H03□	X7R (EIA)	100Vdc	0.68µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER72A684K2□□H03□	X7R (EIA)	100Vdc	0.68µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72A105K2□□H03□	X7R (EIA)	100Vdc	1.0µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER72A105K2□□H03□	X7R (EIA)	100Vdc	1.0µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCEC72A155K3□□H03□	X7S (EIA)	100Vdc	1.5µF±10%	5.5×5.0	4.0	2.5	A2	DB
RCEC72A155K3□□H03□	X7S (EIA)	100Vdc	1.5µF±10%	5.5×5.0	4.0	5.0	K1	M1
RCEC72A225K3□□H03□	X7S (EIA)	100Vdc	2.2µF±10%	5.5×5.0	4.0	2.5	A2	DB
RCEC72A225K3□□H03□	X7S (EIA)	100Vdc	2.2µF±10%	5.5×5.0	4.0	5.0	K1	M1
RCEC72A475MW□□H03□	X7S (EIA)	100Vdc	4.7μF±20%	5.5×7.5	4.0	5.0	K1	M1
RCER72E102K1 H03	X7R (EIA)	250Vdc	1000pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E152K1 H03	X7R (EIA)	250Vdc	1500pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E222K1 H03	X7R (EIA)	250Vdc	2200pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E332K1 H03	X7R (EIA)	250Vdc	3300pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E472K1 H03	X7R (EIA)	250Vdc	4700pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E682K1 H03	X7R (EIA)	250Vdc	6800pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E103K1 H03	X7R (EIA)	250Vdc	10000pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E153K1 H03	X7R (EIA)	250Vdc	15000pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E223K1 H03	X7R (EIA)	250Vdc	22000pF±10%	4.0×3.5	3.15	5.0	K1	M1
RCER72E333K2 H03	X7R (EIA)	250Vdc 250Vdc	33000pF±10%	5.5×4.0	3.15 3.15	5.0	K1	M1
RCER72E473K2 H03 RCER72E683K2 H03	X7R (EIA)	250Vdc	47000pF±10%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M1 M1
RCER72E104K2 H03	X7R (EIA) X7R (EIA)	250Vdc	68000pF±10% 0.10μF±10%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1
RCER72E154K3 H03	X7R (EIA)	250Vdc	0.10μF±10% 0.15μF±10%	5.5×4.0 5.5×5.0	4.0	5.0	K1	M1
RCER72E134K3 H03	X7R (EIA)	250Vdc	0.15μF±10% 0.22μF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER72E334K4 H03	X7R (EIA)	250Vdc	0.33µF±10%	7.5×5.5	4.0	5.0	K1	M1
RCER72E474K4 H03	X7R (EIA)	250Vdc	0.47µF±10%	7.5×5.5	4.0	5.0	K1	M1
RCER72E684K5 H03	X7R (EIA)	250Vdc	0.47μ1±10% 0.68μF±10%	7.5×7.5	4.0	5.0	B1	E1
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	230 740	5.55µi ±1070	7.5~7.5	7.0	J.0		

	ge. 3							
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RCER72E105K5□□H03□	X7R (EIA)	250Vdc	1.0µF±10%	7.5×7.5	4.0	5.0	B1	E1
RCER72E225MU□□H03□	X7R (EIA)	250Vdc	2.2µF±20%	7.5×12.5	4.0	5.0	B1	E1
RCER72J102K2□□H03□	X7R (EIA)	630Vdc	1000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J152K2□□H03□	X7R (EIA)	630Vdc	1500pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J222K2□□H03□	X7R (EIA)	630Vdc	2200pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J332K2□□H03□	X7R (EIA)	630Vdc	3300pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J472K2□□H03□	X7R (EIA)	630Vdc	4700pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J682K2□□H03□	X7R (EIA)	630Vdc	6800pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J103K2□□H03□	X7R (EIA)	630Vdc	10000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J153K2□□H03□	X7R (EIA)	630Vdc	15000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J223K2□□H03□	X7R (EIA)	630Vdc	22000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72J333K3□□H03□	X7R (EIA)	630Vdc	33000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER72J473K3□□H03□	X7R (EIA)	630Vdc	47000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER72J683K4□□H03□	X7R (EIA)	630Vdc	68000pF±10%	7.5×5.5	4.0	5.0	K1	M1
RCER72J104K4□□H03□	X7R (EIA)	630Vdc	0.10µF±10%	7.5×5.5	4.0	5.0	K1	M1
RCER72J154K5□□H03□	X7R (EIA)	630Vdc	0.15µF±10%	7.5×8.0	4.0	5.0	B1	E1
RCER72J224K5□□H03□	X7R (EIA)	630Vdc	0.22µF±10%	7.5×8.0	4.0	5.0	B1	E1
RCER72J474MU□□H03□	X7R (EIA)	630Vdc	0.47µF±20%	7.7×13.0	4.0	5.0	B1	E1
RCER73A102K2□□H03□	X7R (EIA)	1000Vdc	1000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A152K2□□H03□	X7R (EIA)	1000Vdc	1500pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A222K2□□H03□	X7R (EIA)	1000Vdc	2200pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A332K2□□H03□	X7R (EIA)	1000Vdc	3300pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A472K2□□H03□	X7R (EIA)	1000Vdc	4700pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A682K2□□H03□	X7R (EIA)	1000Vdc	6800pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A103K2□□H03□	X7R (EIA)	1000Vdc	10000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER73A153K3□□H03□	X7R (EIA)	1000Vdc	15000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER73A223K3□□H03□	X7R (EIA)	1000Vdc	22000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER73A333K4□□H03□	X7R (EIA)	1000Vdc	33000pF±10%	7.5×5.5	4.0	5.0	K1	M1
RCER73A473K4□□H03□	X7R (EIA)	1000Vdc	47000pF±10%	7.5×5.5	4.0	5.0	K1	M1
RCER73A683K5□□H03□	X7R (EIA)	1000Vdc	68000pF±10%	7.5×8.0	4.0	5.0	B1	E1
RCER73A104K5□□H03□	X7R (EIA)	1000Vdc	0.10µF±10%	7.5×8.0	4.0	5.0	B1	E1
RCER73A224MU□□H03□	X7R (EIA)	1000Vdc	0.22µF±20%	7.7×13.0	4.0	5.0	B1	E1

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code.

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack)

Temperature Compensating Type Specifications and Test Methods

No.	AEC-Q200) Test Item	Specifications	AFC-0200	Test Method			
		ost-Stress		ΑΕΘ Ψ200				
1	Electrical			_				
	High Tem Exposure	perature (Storage)	The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities					
2		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Sit the capacitor for 1000±12h at 150±3°C. Let sit for 24±2h at				
2		Q	30pF ≤ C: Q ≥ 350 10pF ≤ C < 30pF: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C	room condition*, then measure.				
			C: Nominal Capacitance (pF)					
		I.R.	More than $1000M\Omega$ or $50M\Omega \cdot \mu F$ (Whichever is smaller)					
	Temperature Cycling		The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities	Perform the 1000 cycles accord	ding to the four heat treatments			
	Change		Capacitance Change Within ±5% or ±0.5pF (Whichever is larger)		sit for 24±2h at room condition*,			
3			30pF ≤ C: Q ≥ 350 10pF ≤ C < 30pF: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C	Temp. (°C) -55+0/-3 Room	2 3 4 Temp. 125+3/-0 Room Temp. 1 15±3 1			
			C: Nominal Capacitance (pF)					
	I.R.		1000MΩ or 50MΩ • μF min. (Whichever is smaller)					
	Moisture Resistance		The measured and observed characteristics should satisfy the specifications in the following table.	Apply the 24h heat (25 to 65°C treatment shown below, 10 cor	secutive times.			
		Appearance	No defects or abnormalities	Let sit for 24±2h at room condit				
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	(°C) 90-98% 80-98% 91	unidity Humidity D-98% 80-98% 90-98%			
4		Q	30pF ≤ C: Q ≥ 200 30pF > C: Q ≥ 100+10C/3	55 50 45 45 45 45 45 45 45 46 47 47 47 47 47 47 47 47 47 47 47 47 47				
		I.R.	C: Nominal Capacitance (pF) $500M\Omega \text{ or } 25M\Omega \bullet \mu\text{F min. (Whichever is smaller)}$	0 1 2 3 4 5 6 7 8 9 101112131415161718192021222324				
	Biased Hu	ımidity	The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities					
5		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	at 85±3°C and 80 to 85% humi	•			
		Q	30pF ≤ C: Q ≥ 200 30pF > C: Q ≥ 100+10C/3	Remove and let sit for 24±2h at The charge/discharge current is	room condition*, then measure. less than 50mA.			
			C: Nominal Capacitance (pF)					
		I.R.	500M Ω or 25M Ω • μF min. (Whichever is smaller)					
	Operation	nal Life	The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities		table for 1000±12h at 125±3°C.			
		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Let sit for 24±2h at room condit The charge/discharge current is	less than 50mA.			
6		Q	30pF ≤ C: Q ≥ 350 10pF ≤ C < 30pF: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C	Rated Voltage DC50V, DC100V DC250V DC630V, DC1kV	Test Voltage 200% of the rated voltage 150% of the rated voltage 120% of the rated voltage			
			C: Nominal Capacitance (pF)					
		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)					

^{* &}quot;room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

Temperature Compensating Type Specifications and Test Methods

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No.	o. AEC-Q200 Test Item		Specifications	AEC-Q200 Test Method				
	External \		No defects or abnormalities					
7				Visual inspection				
8	Physical D	Jimension	Within the specified dimensions	Using calipers and micrometers Visual inspection				
9	Marking	A	To be easily legible	Visual inspection				
		Appearance	No defects or abnormalities	Per MIL-STD-202 Method 215 Solvent 1: 1 part (by volume) of isopropyl alcohol				
10	Resistance to Solvents	Q Q	Within the specified tolerance $30pF \le C: Q \ge 1000$ $30pF > C: Q \ge 400+20C$	3 parts (by volume) of mineral spirits Solvent 2: Terpene defluxer Solvent 3: 42 parts (by volume) of water 1 part (by volume) of propylene glycol				
		I.R.	C: Nominal Capacitance (pF) More than 10000ΜΩ or 500ΜΩ • μF (Whichever is smaller)	monomethyl ether 1 part (by volume) of monoethanolamine				
		Appearance	No defects or abnormalities	+ ' ' '				
		Capacitance	Within the specified tolerance	Three shocks in each direction should be applied along				
11	Mechanical Shock	Q	30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C C: Nominal Capacitance (pF)	3 mutually perpendicular axes of the test specimen (18 shocks). The specified test pulse should be Half-sine and should have a duration: 0.5ms, peak value: 1500G and velocity change: 4.7m/s.				
		Appearance	No defects or abnormalities	The capacitor should be subjected to a simple harmonic motion				
		Capacitance	Within the specified tolerance	having a total amplitude of 1.5mm, the frequency being varied				
12	Vibration	Q	30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C	uniformly between the approximate limits of 10 and 2000Hz. The frequency range, from 10 to 2000Hz and return to 10Hz, should be traversed in approximately 20min. This motion should be applied for 12 items in each 3 mutually perpendicular limits in the 1500 times.				
	Di.t	.	C: Nominal Capacitance (pF)	directions (total of 36 times).				
	Resistance Soldering F		The measured and observed characteristics should satisfy the specifications in the following table.					
	(Non-Preheat)	Appearance	No defects or abnormalities	-				
13	Capacitanc Change		Within ±2.5% or ±0.25pF (Whichever is larger)	The lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 10±1s. Post-treatment				
1		Dielectric Strength (Between Terminals)	No defects	Capacitor should be stored for 24±2h at room condition*.				
	Resistance Soldering F		The measured and observed characteristics should satisfy the specifications in the following table.					
	(On-Preheat)	Appearance	No defects or abnormalities	First the capacitor should be stored at 120+0/-5°C for 60+0/-5°				
13 ' 2		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Then, the lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s. Post-treatment				
		Dielectric Strength (Between Terminals)	No defects	Capacitor should be stored for 24±2h at room condition*.				
	Resistance Soldering F		The measured and observed characteristics should satisfy the specifications in the following table.	Test condition				
	(soldering iron method)	Appearance	No defects or abnormalities	Temperature of iron-tip: 350±10°C Soldering time: 3.5±0.5s				
13 ' 3	,	Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Soldering time: 3.520.35 Soldering position Straight Lead: 1.5 to 2.0mm from the root of terminal.				
	Dielectric Strength (Between Terminals		No defects	Crimp Lead: 1.5 to 2.0mm from the end of lead bend. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
	Thermal S	Shock	The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities	Perform the 300 cycles according to the two heat treatments				
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	listed in the following table (Maximum transfer time is 20s). Let sit for 24±2h at room condition*, then measure.				
14		Q	30pF ≤ C: Q ≥ 350 10pF ≤ C < 30p: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C	Step 1 2 Temp. (°C) -55+0/-3 125+3/-0 Time (min) 15±3 15±3				
			C: Nominal Capacitance (pF)					
		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	7				

 $^{^{\}star}$ "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

Temperature Compensating Type Specifications and Test Methods

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No.	AEC-Q200	Test Item	Specifi	cations	AEC-Q200 Test Method		
		Appearance	No defects or abnormalities				
		Capacitance	Within the specified tolerance		Per AEC-Q200-002		
15	ESD	Q	30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C				
			C: Nominal Capacitance (pF)				
		I.R.	More than $10000 M\Omega$ or $500 M\Omega$	2 • μF (Whichever is smaller)			
16	Solderabi	lity	Lead wire should be soldered w direction over 95% of the circui		Should be placed into steam aging for 8h±15min. The terminal of capacitor is dipped into a solution of ethanol (JIS K 8101) and rosin (JIS K 5902) (25% rosin in weight propotion). Immerse in solder solution for 2±0.5s. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body.		
		Appearance	No defects or abnormalities		Visual inspection		
		Capacitance	Within the specified tolerance		The capacitance, Q should be measured at 25°C at the frequency and voltage shown in the table.		
		Q	30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C C: Nominal Capacitance (pF)		Nominal Cap. Frequency Voltage C ≤ 1000pF 1±0.1MHz AC0.5 to 5V (r.m.s.) 10μF ≥ C > 1000pF 1±0.1kHz AC1±0.2V (r.m.s.) C > 10μF 120±24Hz AC0.5±0.1V (r.m.s.)		
		I.R.	Between Terminals	10000MΩ or 500MΩ • μF min. (Whichever is smaller)	The insulation resistance should be measured with a DC voltage shown in the table at 25°C within 2min of charging. Rated Voltage Measuring Voltage DC25V, DC50V, DC100V, DC250V Rated Voltage DC630V, DC1kV DC500V		
17	Electrical Charac- terization		Between Terminals	No defects or abnormalities	The capacitor should not be damaged when DC voltage shown in the table is applied between the terminations for 1 to 5s. (Charge/Discharge current ≤ 50mA.) Rated Voltage Test Voltage DC50V, DC100V 300% of the rated voltage DC250V 200% of the rated voltage DC630V 150% of the rated voltage DC1kV 130% of the rated voltage		
		Dielectric Strength			No defects or abnormalities	The capacitor is placed in a container with metal balls of 1mm diameter so that each terminal, short-circuit is kept approximately 2mm from the balls, and DC voltage shown in the table is impressed for 1 to 5s between capacitor terminals and metal balls. (Charge/Discharge current ≤ 50mA.) Rated Voltage Test Voltage DC25V, DC50V, DC100V 250% of the rated voltage DC250V 200% of the rated voltage DC630V, DC1kV DC1300V	
18	Terminal Strength	Tensile Strength	Termination not to be broken or loosened		As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep the force applied for 10±1s.		
		Bending Strength	Termination not to be broken o	r loosened	Each lead wire should be subjected to a force of 2.5N and then be bent 90° at the point of egress in one direction. Each wire is then returned to the original position and bent 90° in the opposite direction at the rate of one bend per 2 to 3s.		

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No.	AEC-Q200 Test Item	Specifications			AEC-Q200 Test Method			
					The capacitance change should be measured after 5min at each specified temperature step.			
					Step 1	Temperature (°C) 25±2		
	Capacitance Temperature				2	-55±3		
		Char.	Temperature Coefficient		3	25±2		
			25 to 125°C: 0±30ppm/°C		4	125±3		
19		COG	-55 to 25°C: 0+30/-72ppm/°C		5	25±2		
	Characteristics	U2J	25 to 125°C: -750±120ppm/°C -55 to 25°C: -750+120/-347ppm/°C			3 as a reference. When cycling rom step 1 through 5 (-55 to ld be within the specified coefficient. ated by dividing the differences inimum measured values in the		

No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method			
1	Pre-and P Electrical	ost-Stress Test		-			
	High Tem Exposure	perature (Storage)	The measured and observed characteristics should satisfy the specifications in the following table.				
		Appearance	No defects or abnormalities	Sit the capacitor for 1000±12h at 150±3°C. Let sit for 24±2h			
2		Capacitance Change	Within ±12.5%	at room condition*, then measure. •Pretreatment Perform the heat treatment at 150+0/-10°C for 60±5min			
		D.F.	0.04 max.	and then let sit for 24±2h at room condition*.			
		I.R.	More than $1000 \text{M}\Omega$ or $50 \text{M}\Omega \cdot \mu\text{F}$ (Whichever is smaller)				
	Temperat Cycling	:ure	The measured and observed characteristics should satisfy the specifications in the following table.	Perform the 1000 cycles according to the four heat treatments listed in the following table. Let sit for 24±2h at room condition*,			
		Appearance	No defects or abnormalities	then measure.			
3		Capacitance Change	Within ±12.5%	Step 1 2 3 4 Temp. (°C) -55+0/-3 Room Temp. 125+3/-0 Room Temp. Time (min) 15±3 1 15±3 1			
		D.F.	0.05 max.	Pretreatment			
		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	Perform the heat treatment at 150+0/-10°C for 60±5min and then let sit for 24±2h at room condition*.			
	Moisture Resistance		The measured and observed characteristics should satisfy the specifications in the following table.	Apply the 24h heat (25 to 65°C) and humidity (80 to 98%) treatment shown below, 10 consecutive times.			
		Appearance	No defects or abnormalities	Let sit for 24±2h at room condition*, then measure. •Pretreatment			
		Capacitance Change Within ±12.5%		Perform the heat treatment at 150+0/-10°C for 60±5min and then let sit for 24±2h at room condition*.			
		D.F.	0.05 max.	Humidity Humidity Humidity Humidity (°C) 90-98% 80-98% 90-98% 80-98% 90-98%			
4		I.R.	500MΩ or 25MΩ • μF min. (Whichever is smaller)	70 65 66 67 70 84 84 84 84 84 84 84 84 84 84 84 84 84			
	Biased Hu	ımidity	The measured and observed characteristics should satisfy the specifications in the following table.	Apply the rated voltage and DC1.3+0.2/-0V (add 100kΩ resistor)			
		Appearance	No defects or abnormalities	at 85±3°C and 80 to 85% humidity for 1000±12h. Remove and let sit for 24±2h at room condition*, then measure.			
5		Capacitance Change	Within ±12.5%	The charge/discharge current is less than 50mA. •Pretreatment			
		D.F.	0.05 max.	Perform the heat treatment at 150+0/-10°C for 60±5min and then let sit for 24±2h at room condition*.			
		I.R.	500MΩ or 25MΩ • μF min. (Whichever is smaller)				

 $^{{\}rm *~``froom~condition''} {\rm~Temperature:~15~to~35°C,~Relative~humidity:~45~to~75\%,~Atmosphere~pressure:~86~to~106kPa}$

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No.	AEC-Q200	Test Item	Specifications	AEC-Q200	Test Method			
	Operation	nal Life	The measured and observed characteristics should satisfy the specifications in the following table.	Apply the voltage shown in the t Let sit for 24±2h at room condi				
		Appearance	No defects or abnormalities	The charge/discharge current is less than 50mA. •Pretreatment Apply test voltage for 60±5min at test temperature. Remove and let sit for 24±2h at room condition*.				
6		Capacitance Change	Within ±12.5%					
		D.F.	0.04 max.	Rated Voltage Test Voltage				
	,	I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	DC25V, DC50V, DC100V DC250V DC630V DC1kV	200% of the rated voltage *1 150% of the rated voltage 120% of the rated voltage 110% of the rated voltage			
7	External \	/isual	No defects or abnormalities	Visual inspection				
8	Physical D	Dimension	Within the specified dimensions	Using calipers and micrometers				
9	Marking		To be easily legible	Visual inspection				
		Appearance	No defects or abnormalities	Per MIL-STD-202 Method 215				
		Capacitance	Within the specified tolerance	Solvent 1: 1 part (by volume)				
	Resistance	D.F.	0.025 max.	3 parts (by volume) of mineral spirits Solvent 2: Terpene defluxer Solvent 3: 42 parts (by volume) of water 1 part (by volume) of propylene glycol monomethyl ether 1 part (by volume) of monoethanolamine				
10	to Solvents	I.R.	Rated Voltage: DC25V, DC50V, DC100V More than 10000MΩ or 500MΩ • μF (Whichever is smaller) Rated Voltage: DC250V, DC500V, DC630V, DC1kV More than 10000MΩ or 100MΩ • μF (Whichever is smaller)					
		Appearance	No defects or abnormalities	Three shocks in each direction s	should be applied along			
11	Mechanical	Capacitance	Within the specified tolerance	3 mutually perpendicular axes of The specified test pulse should	of the test specimen (18 shocks).			
	Shock	D.F.	0.025 max.	have a duration: 0.5ms, peak value: 1500G and velocity ch 4.7m/s.				
		Appearance	No defects or abnormalities	The capacitor should be subjected to a simple harmonic motion				
		Capacitance	Within the specified tolerance	having a total amplitude of 1.5mm, the frequency being vari uniformly between the approximate limits of 10 and 2000H				
12	Vibration	D.F.	0.025 max.	The frequency range, from 10 to 2000Hz and return to 10 should be traversed in approximately 20min. This motion be applied for 12 items in each 3 mutually perpendicular directions (total of 36 times).				
	Resistance Soldering F		The measured and observed characteristics should satisfy the specifications in the following table.	The lead wires should be immersed in the melted solder 1.5 to				
	(Non-Preheat)	Appearance	No defects or abnormalities	2.0mm from the root of termina				
13 ' 1		Capacitance Change	Within ±7.5%	Pre-treatment Capacitor should be stored at at room temperature for 24±2	150+0/-10°C for 1h, then place			
		Dielectric Strength (Between Terminals)	No defects	Post-treatment Capacitor should be stored for				
	Resistance Soldering H		The measured and observed characteristics should satisfy the specifications in the following table.	First the capacitor should be sto	ored at 120+0/-5°C for 60+0/-5s			
	(On-Preheat)	Appearance	No defects or abnormalities	Then, the lead wires should be i	mmersed in the melted solder 1.5			
13		Capacitance Change	Within ±7.5%	to 2.0mm from the root of term Pre-treatment Capacitor should be stored at 2				
2		Dielectric Strength (Between Terminals)	No defects	Capacitor should be stored at 150+0/-10°C for 1h, the room temperature for 24±2h before initial measureme Post-treatment Capacitor should be stored for 24±2h at room condition				

 $[\]star$ "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

^{*1:} below parts are applicable in rated voltage×150%.

Char.	Rated Voltage	Capacitance	Dimensions
C7	1H	105	1
C7	1H	475	2
C7	1H	106	3
C7	1H	226	W
R7	2A	334	1
R7	2A	474-105	2
C7	2A	155-225	3
C7	2A	475	W

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No.	lo. AEC-Q200 Test Iter			Specifications	AEC-Q200 Test Method			
	Resistance Soldering H	Heat	specifications in the f		Test condition Temperature of iro Soldering time: 3.5		10°C	
	Iron Method)	Appearance	No defects or abnorm	nauties	Soldering position			
13		Capacitance Change	Within ±7.5%		Straight Lead: 1.5 to 2.0mm from the root of terminal. Crimp Lead: 1.5 to 2.0mm from the end of lead bend. Pre-treatment			
3		Dielectric Strength (Between Terminals)	No defects		Capacitor should be stored at 150+0/-10°C for 1h, then place at room temperature for 24±2h before initial measurement. Post-treatment Capacitor should be stored for 24±2h at room condition*.			
	Thermal S	Shock	The measured and ob specifications in the f	served characteristics should satisfy the ollowing table.			_	he two heat treatments transfer time is 20s).
		Appearance	No defects or abnorm	nalities	Let sit for 24±2h at	room cond	ition*, th	hen measure.
14		Capacitance Change	Within ±12.5%		Step Temp. (°C) Time (min)	1 -55+0/-3 15±3	3	2 125+3/-0 15±3
		D.F.	0.05 max.		•Pretreatment	15:5		1313
		I.R.	1000MΩ or 50MΩ • μ	F min. (Whichever is smaller)	Perform the heat treatment at 150+0/-10°C for 60±5min and then let sit for 24±2h at room condition*.			
		Appearance	No defects or abnorm	nalities				
	ESD	Capacitance	Within the specified t	olerance				
15		D.F.	0.025 max.		Per AEC-Q200-002	2		
		I.R.	Rated Voltage: DC25	V, DC50V, DC100V or 500MΩ • μF (Whichever is smaller) oV, DC500V, DC630V, DC1kV or 100MΩ • μF (Whichever is smaller)				
16	Solderabi	lity		oldered with uniform coating on the axial the circumferential direction.	The terminal of cap (JIS K 8101) and ro propotion). Immers	d be placed into steam aging for 8h±15min. erminal of capacitor is dipped into a solution of ethanol 8101) and rosin (JIS K 5902) (25% rosin in weight btion). Immerse in solder solution for 2±0.5s. th cases the depth of dipping is up to about 1.5 to 2mm the terminal body.		
		Appearance	No defects or abnorm	nalities	Visual inspection			
		Capacitance	Within the specified t	olerance	The capacitance/D frequency and volta			
		D.F.	0.025 max.		Nominal Cap. Frequency Voltage C ≤ 1000pF 1±0.1MHz AC0.5 to 5V (r.m.s.) 10μF ≥ C > 1000pF 1±0.1kHz AC1±0.2V (r.m.s.) C > 10μF 120±24Hz AC0.5±0.1V (r.m.s.)			AC0.5 to 5V (r.m.s.) AC1±0.2V (r.m.s.)
		I.R. Between Terminals Between Terminals More than 10000MΩ or 500MΩ • μF (Whichever is smaller) Rated Voltage: DC250V, DC500V, DC630V, DC1kV More than 10000MΩ or 100MΩ • μF		(Whichever is smaller) Rated Voltage: DC250V, DC500V, DC630V, DC1kV	The insulation resistance should be measured with a DC voltage shown in the table at 25°C within 2min of charging. Rated Voltage Measuring Voltage DC25V, DC50V, DC100V, DC250V Rated Voltage DC630V, DC1kV DC500V			
17	Electrical Charac- terization	Dielectric	Between Terminals	No defects or abnormalities	The capacitor should not be damaged when DC voltage shown in the table is applied between the terminations for 1 to 5s. (Charge/Discharge current ≤ 50mA.) Rated Voltage DC25V, DC50V, DC100V 250% of the rated volta DC250V 200% of the rated volta DC630V 150% of the rated volta DC1kV 120% of the rated volta		Test Voltage of the rated voltage of the rated voltage	
		Strength	Body Insulation	No defects or abnormalities	diameter so that ea approximately 2mm	ach termina n from the b ne table is in s and metal current ≦ 5 Itage DC100V	, short-oalls, and open seed of the control of the	d 250% of the rated DC d for 1 to 5s between Test Voltage of the rated voltage of the rated voltage

 $^{{\}rm *"room\ condition"}\ \ {\rm Temperature:15\ to\ 35°C,Relative\ humidity:45\ to\ 75\%,Atmosphere\ pressure:86\ to\ 106kPa}$

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	AEC-Q200	'	Specifications	AEC-Q200 Test	t Method		
18	Terminal Strength	Tensile Strength	Termination not to be broken or loosened	As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep the force applied for 10±1s.			
		Bending Strength	Termination not to be broken or loosened	Each lead wire should be subjected to a force of 2.5N and th be bent 90° at the point of egress in one direction. Each wire then returned to the original position and bent 90° in the opposite direction at the rate of one bend per 2 to 3s.			
				The capacitance change should be measured after 5min at each specified temperature step.			
				Step	Temperature (°C)		
				1	25±2		
				2	-55±3		
				3	25±2		
	Capacitar		Char. X7R: Within ±15%	4	125±3		
19			Char. X7S: Within ±22%	5	25±2		
	Character	ristics		The ranges of capacitance change compared with the above 25°C value over the temperature ranges shown in the table should be within the specified ranges. •Pretreatment Perform the heat treatment at 150+0/-10°C for 60±5min and then let sit for 24±2h at room condition*. Perform the initial measurement.			

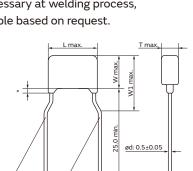
 $^{{\}rm *`"room\ condition"}\ \ {\rm Temperature:15\ to\ 35°C,Relative\ humidity:45\ to\ 75\%,Atmosphere\ pressure:86\ to\ 106kPa}$

150°C Operation Leaded MLCC for Automotive

■ RHE Series (DC25V-DC100V)

Features

- 1. Small size and large capacitance
- 2. Low ESR and ESL suitable for high frequency
- 3. Applied maximum temperature up to 150°C Note: Maximum accumulative time to 150°C is within 2000 hours.
- 4. Meet AEC-Q200, ISO7637-2 (surge test) requirement
- 5. Meet LF (Lead Free) and HF (Halogen Free)
- 6. Flow soldering and welding are available. (Re-flow soldering is not available.)
- 7. If copper wire is necessary at welding process, copper wire is available based on request.



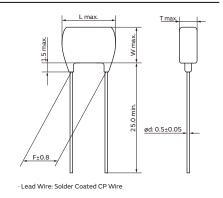


- Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire



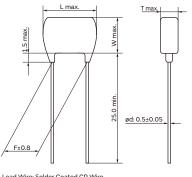
Dimensions code: 0

Lead style code: A2



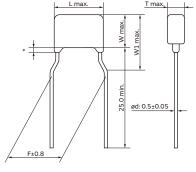
(in mm)





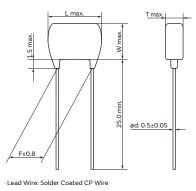


Dimensions code: 1 Lead style code: K1

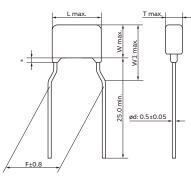


- * Coating extension does not exceed the end of the lead bend · Lead Wire: Solder Coated CP Wire
 - (in mm)



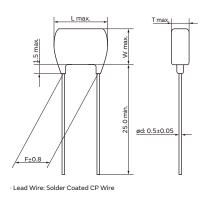




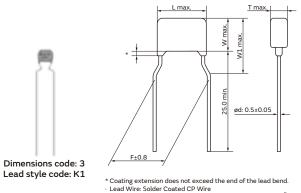


- * Coating extension does not exceed the end of the lead bend Lead Wire: Solder Coated CP Wire

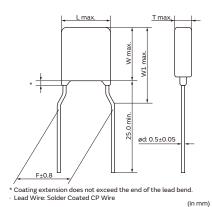




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Dimensions

Dimensions and	Dimensions (mm)								
Lead Style Code	L	W	W1	Т	F	d			
0A2/0DB	3.6	3.5	-		2.5	0.5			
0K1/0M1	3.6	3.5	6.0		5.0	0.5			
1A2/1DB	4.0	3.5	-		2.5	0.5			
1K1/1M1	4.0	3.5	5.0		5.0	0.5			
2A2/2DB	5.5	4.0	-	See the individual product specification	2.5	0.5			
2K1/2M1	5.5	4.0	6.0	product specification	5.0	0.5			
3A2/3DB	5.5	5.0	-		2.5	0.5			
3K1/3M1	5.5	5.0	7.5		5.0	0.5			
WK1/WM1	5.5	7.5	10.0		5.0	0.5			

Marking

i idi king						
Туре	Temperature Compensating Type	High Dielectric	Constant Type			
Rated Voltage	DC50V, DC100V	DC25V, DC50V	DC100V			
Dimensions Code Temp. Char.	X8G	X	8L			
0	8 102J	8 104K	8			
1	\1023	104K	103K			
2	_	(P 105) K58	© 224 K18			
3, W	_	(M 335) K58	_			
Temperature Characteristics	Marked with code (X8G, X8L cha	r.: 8)				
Nominal Capacitance	Marked with 3 figures					
Capacitance Tolerance	Marked with code					
Rated Voltage	Marked with code (DC25V: 2, DC50V: 5, DC100V: 1) A part is omitted (Please refer to the marking example.)					
Manufacturer's Identification	Marked with M A part is omitted (Please refer to the marking example.)					

■ Temperature Compensating Type, X8G Characteristics

Part Number	Temp.	Rated	Capacitance	Dimensions LxW	Dimension T	Lead Space F	Lead Style Code	Lead Style Code
	Char.	Voltage		(mm)	(mm)	(mm)	Bulk	Taping
RHE5G1H101J0 H03	X8G (Murata)	50Vdc	100pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H101J0 H03	X8G (Murata)	50Vdc	100pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H121J0 H03	X8G (Murata)	50Vdc	120pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H121J0 H03	X8G (Murata)	50Vdc	120pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H151J0 H03	X8G (Murata)	50Vdc	150pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H151J0 H03	X8G (Murata)	50Vdc	150pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H181J0 H03	X8G (Murata)	50Vdc	180pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H181J0 H03	X8G (Murata)	50Vdc	180pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H221J0 H03	X8G (Murata)	50Vdc	220pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H221J0 H03	X8G (Murata)	50Vdc	220pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H271J0 H03	X8G (Murata)	50Vdc	270pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H271J0 H03	X8G (Murata)	50Vdc	270pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H331J0 H03	X8G (Murata)	50Vdc	330pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H331J0 H03	X8G (Murata)	50Vdc	330pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H391J0 H03	X8G (Murata)	50Vdc	390pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H391J0 H03	X8G (Murata)	50Vdc	390pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H471J0 H03	X8G (Murata)	50Vdc	470pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H471J0 H03	X8G (Murata)	50Vdc	470pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H561J0 H03	X8G (Murata)	50Vdc	560pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H561J0 H03	X8G (Murata)	50Vdc	560pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H681J0 H03	X8G (Murata)	50Vdc	680pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H681J0 H03	X8G (Murata)	50Vdc	680pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H821J0 H03	X8G (Murata)	50Vdc	820pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H821J0 H03	X8G (Murata)	50Vdc	820pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H102J0 H03	X8G (Murata)	50Vdc	1000pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H102J0 H03	X8G (Murata)	50Vdc	1000pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H122J0 H03	X8G (Murata)	50Vdc	1200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H122J0 H03	X8G (Murata)	50Vdc	1200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H152J0 H03	X8G (Murata)	50Vdc	1500pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H152J0 H03	X8G (Murata)	50Vdc	1500pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H182J0 H03	X8G (Murata)	50Vdc	1800pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H182J0 H03	X8G (Murata)	50Vdc	1800pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H222J0 H03	X8G (Murata)	50Vdc	2200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H222J0 H03	X8G (Murata)	50Vdc	2200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H272J0 H03	X8G (Murata)	50Vdc	2700pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H272J0 H03	X8G (Murata)	50Vdc	2700pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H332J0 H03	X8G (Murata)	50Vdc	3300pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H332J0 H03	X8G (Murata)	50Vdc	3300pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H392J0 H03	X8G (Murata)	50Vdc	3900pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G1H392J0 H03	X8G (Murata)	50Vdc	3900pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H472J1 H03	X8G (Murata)	50Vdc	4700pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H472J1 H03	X8G (Murata)	50Vdc	4700pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H562J1 H03	X8G (Murata)	50Vdc	5600pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H562J1 H03	X8G (Murata)	50Vdc	5600pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H682J1 H03	X8G (Murata)	50Vdc	6800pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H682J1 H03	X8G (Murata)	50Vdc	6800pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H822J1 H03	X8G (Murata)	50Vdc	8200pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H822J1 H03	X8G (Murata)	50Vdc	8200pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H103J1 H03	X8G (Murata)	50Vdc	10000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H103J1 H03	X8G (Murata)	50Vdc	10000pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G2A101J0 H03	X8G (Murata)	100Vdc	100pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A101J0 H03	X8G (Murata)	100Vdc	100pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A121J0 H03	X8G (Murata)	100Vdc	120pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A121J0 H03	X8G (Murata)	100Vdc	120pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A151J0 H03	X8G (Murata)	100Vdc	150pF±5%	3.6×3.5	2.5	2.5	A2	DB

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Continued from the preceding po	Temp.	Rated		Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Char.	Voltage	Capacitance	LxW (mm)	T (mm)	F ['] (mm)	Code Bulk	Code Taping
RHE5G2A151J0 H03	X8G (Murata)	100Vdc	150pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A181J0□□H03□	X8G (Murata)	100Vdc	180pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A181J0 H03	X8G (Murata)	100Vdc	180pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A221J0□□H03□	X8G (Murata)	100Vdc	220pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A221J0□□H03□	X8G (Murata)	100Vdc	220pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A271J0 H03	X8G (Murata)	100Vdc	270pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A271J0 H03	X8G (Murata)	100Vdc	270pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A331J0 H03	X8G (Murata)	100Vdc	330pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A331J0□□H03□	X8G (Murata)	100Vdc	330pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A391J0□□H03□	X8G (Murata)	100Vdc	390pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A391J0□□H03□	X8G (Murata)	100Vdc	390pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A471J0 H03	X8G (Murata)	100Vdc	470pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A471J0 H03	X8G (Murata)	100Vdc	470pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A561J0□□H03□	X8G (Murata)	100Vdc	560pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A561J0□□H03□	X8G (Murata)	100Vdc	560pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A681J0□□H03□	X8G (Murata)	100Vdc	680pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A681J0□□H03□	X8G (Murata)	100Vdc	680pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A821J0□□H03□	X8G (Murata)	100Vdc	820pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A821J0□□H03□	X8G (Murata)	100Vdc	820pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A102J0 H03	X8G (Murata)	100Vdc	1000pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A102J0 H03	X8G (Murata)	100Vdc	1000pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A122J0□□H03□	X8G (Murata)	100Vdc	1200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A122J0 H03	X8G (Murata)	100Vdc	1200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A152J0 H03	X8G (Murata)	100Vdc	1500pF±5%	3.6×3.5	2.5	2.5	A2	DB
RHE5G2A152J0 H03	X8G (Murata)	100Vdc	1500pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G2A182J1 H03	X8G (Murata)	100Vdc	1800pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G2A182J1□□H03□	X8G (Murata)	100Vdc	1800pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G2A222J1 H03	X8G (Murata)	100Vdc	2200pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G2A222J1□□H03□	X8G (Murata)	100Vdc	2200pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G2A272J1□□H03□	X8G (Murata)	100Vdc	2700pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G2A272J1 H03	X8G (Murata)	100Vdc	2700pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G2A332J1 H03	X8G (Murata)	100Vdc	3300pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G2A332J1□□H03□	X8G (Murata)	100Vdc	3300pF±5%	4.0×3.5	2.5	5.0	K1	M1

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code.

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RHEL81E104K0□□H03□	X8L (Murata)	25Vdc	0.1µF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81E104K0 H03	X8L (Murata)	25Vdc	0.1µF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81E154K0 H03	X8L (Murata)	25Vdc	0.15µF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81E154K0 H03	X8L (Murata)	25Vdc	0.15µF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81E224K0 H03	X8L (Murata)	25Vdc	0.22µF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81E224K0 H03	X8L (Murata)	25Vdc	0.22µF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81E334K1 H03	X8L (Murata)	25Vdc	0.33µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81E334K1 H03	X8L (Murata)	25Vdc	0.33µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81E474K1 H03	X8L (Murata)	25Vdc	0.47µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81E474K1 H03	X8L (Murata)	25Vdc	0.47µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81E684K1 H03	X8L (Murata)	25Vdc	0.68µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81E684K1 H03	X8L (Murata)	25Vdc	0.68µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81E105K1 H03	X8L (Murata)	25Vdc	1.0µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81E105K1 H03	X8L (Murata)	25Vdc	1.0µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81E155K2 H03	X8L (Murata)	25Vdc	1.5µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81E155K2□□H03□	X8L (Murata)	25Vdc	1.5µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81E225K2□□H03□	X8L (Murata)	25Vdc	2.2µF±10%	5.5×4.0	3.15	2.5	A2	DB

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack) $\,$

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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RHEL81E225K2□□H03□	X8L (Murata)	25Vdc	2.2µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81E335K2□□H03□	X8L (Murata)	25Vdc	3.3µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81E335K2□□H03□	X8L (Murata)	25Vdc	3.3µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81E475K2□□H03□	X8L (Murata)	25Vdc	4.7µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81E475K2□□H03□	X8L (Murata)	25Vdc	4.7µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81E106K3 H03	X8L (Murata)	25Vdc	10μF±10%	5.5×5.0	4.0	2.5	A2	DB
RHEL81E106K3 H03	X8L (Murata)	25Vdc	10µF±10%	5.5×5.0	4.0	5.0	K1	M1
RHEL81E226MW□□H03□	X8L (Murata)	25Vdc	22µF±20%	5.5×7.5	4.0	5.0	K1	M1
RHEL81H221K0□□H03□	X8L (Murata)	50Vdc	220pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H221K0 H03	X8L (Murata)	50Vdc	220pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H331K0□□H03□	X8L (Murata)	50Vdc	330pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H331K0 H03	X8L (Murata)	50Vdc	330pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H471K0 H03	X8L (Murata)	50Vdc	470pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H471K0 H03	X8L (Murata)	50Vdc	470pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H681K0□□H03□	X8L (Murata)	50Vdc	680pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H681K0□□H03□	X8L (Murata)	50Vdc	680pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H102K0 H03	X8L (Murata)	50Vdc	1000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H102K0 H03	X8L (Murata)	50Vdc	1000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H152K0□□H03□	X8L (Murata)	50Vdc	1500pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H152K0□□H03□	X8L (Murata)	50Vdc	1500pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H222K0□□H03□	X8L (Murata)	50Vdc	2200pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H222K0□□H03□	X8L (Murata)	50Vdc	2200pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H332K0□□H03□	X8L (Murata)	50Vdc	3300pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H332K0 H03	X8L (Murata)	50Vdc	3300pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H472K0 H03	X8L (Murata)	50Vdc	4700pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H472K0 H03	X8L (Murata)	50Vdc	4700pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H682K0 H03	X8L (Murata)	50Vdc	6800pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H682K0 H03	X8L (Murata)	50Vdc	6800pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H103K0 H03	X8L (Murata)	50Vdc	10000pF±10%	3.6×3.5	2.5	2.5	A2	DB M1
	X8L (Murata)	50Vdc 50Vdc	10000pF±10%	3.6×3.5	2.5	5.0 2.5	K1	M1 DB
RHEL81H153K0 H03 RHEL81H153K0 H03	X8L (Murata) X8L (Murata)	50Vdc	15000pF±10% 15000pF±10%	3.6×3.5 3.6×3.5	2.5	5.0	A2 K1	M1
RHEL81H223K0 H03	X8L (Murata)	50Vdc	22000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H223K0 H03	X8L (Murata)	50Vdc	22000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H333K0 H03	X8L (Murata)	50Vdc	33000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H333K0 H03	X8L (Murata)	50Vdc	33000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H473K0 H03	X8L (Murata)	50Vdc	47000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H473K0 H03	X8L (Murata)	50Vdc	47000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H683K0□□H03□	X8L (Murata)	50Vdc	68000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H683K0□□H03□	X8L (Murata)	50Vdc	68000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H104K0□□H03□	X8L (Murata)	50Vdc	0.10µF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL81H104K0 H03	X8L (Murata)	50Vdc	0.10µF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL81H154K1 H03	X8L (Murata)	50Vdc	0.15µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81H154K1□□H03□	X8L (Murata)	50Vdc	0.15µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81H224K1 H03	X8L (Murata)	50Vdc	0.22µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81H224K1□□H03□	X8L (Murata)	50Vdc	0.22µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81H334K1□□H03□	X8L (Murata)	50Vdc	0.33µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL81H334K1□□H03□	X8L (Murata)	50Vdc	0.33µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL81H474K2□□H03□	X8L (Murata)	50Vdc	0.47µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81H474K2□□H03□	X8L (Murata)	50Vdc	0.47µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81H684K2 H03	X8L (Murata)	50Vdc	0.68µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81H684K2 H03	X8L (Murata)	50Vdc	0.68µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81H105K2 H03	X8L (Murata)	50Vdc	1.0µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81H105K2 H03	X8L (Murata)	50Vdc	1.0µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81H155K2 H03	X8L (Murata)	50Vdc	1.5µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL81H155K2 H03	X8L (Murata)	50Vdc	1.5µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81H225K2□□H03□	X8L (Murata)	50Vdc	2.2µF±10%	5.5×4.0	3.15	2.5	A2	DB

Continued from the preceding pa				Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Temp. Char.	Rated Voltage	Capacitance	LxW (mm)	T (mm)	F (mm)	Code Bulk	Code Taping
RHEL81H225K2 H03	X8L (Murata)	50Vdc	2.2µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL81H335K3□□H03□	X8L (Murata)	50Vdc	3.3µF±10%	5.5×5.0	4.0	2.5	A2	DB
RHEL81H335K3□□H03□	X8L (Murata)	50Vdc	3.3µF±10%	5.5×5.0	4.0	5.0	K1	M1
RHEL81H475K3□□H03□	X8L (Murata)	50Vdc	4.7µF±10%	5.5×5.0	4.0	2.5	A2	DB
RHEL81H475K3□□H03□	X8L (Murata)	50Vdc	4.7µF±10%	5.5×5.0	4.0	5.0	K1	M1
RHEL81H106MW H03	X8L (Murata)	50Vdc	10μF±20%	5.5×7.5	4.0	5.0	K1	M1
RHEL82A221K0 H03	X8L (Murata)	100Vdc	220pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A221K0 H03	X8L (Murata)	100Vdc	220pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A331K0 H03	X8L (Murata)	100Vdc	330pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A331K0 H03	X8L (Murata)	100Vdc	330pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A471K0 H03	X8L (Murata)	100Vdc	470pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A471K0 H03	X8L (Murata)	100Vdc	470pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A681K0 H03	X8L (Murata)	100Vdc	680pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A681K0 H03	X8L (Murata)	100Vdc	680pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A102K0□□H03□	X8L (Murata)	100Vdc	1000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A102K0□□H03□	X8L (Murata)	100Vdc	1000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A152K0□□H03□	X8L (Murata)	100Vdc	1500pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A152K0□□H03□	X8L (Murata)	100Vdc	1500pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A222K0□□H03□	X8L (Murata)	100Vdc	2200pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A222K0□□H03□	X8L (Murata)	100Vdc	2200pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A332K0□□H03□	X8L (Murata)	100Vdc	3300pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A332K0□□H03□	X8L (Murata)	100Vdc	3300pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A472K0□□H03□	X8L (Murata)	100Vdc	4700pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A472K0□□H03□	X8L (Murata)	100Vdc	4700pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A682K0□□H03□	X8L (Murata)	100Vdc	6800pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A682K0□□H03□	X8L (Murata)	100Vdc	6800pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A103K0 H03	X8L (Murata)	100Vdc	10000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A103K0 H03	X8L (Murata)	100Vdc	10000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A153K0 H03	X8L (Murata)	100Vdc	15000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A153K0 H03	X8L (Murata)	100Vdc	15000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A223K0 H03	X8L (Murata)	100Vdc	22000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RHEL82A223K0 H03	X8L (Murata)	100Vdc	22000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RHEL82A333K1 H03	X8L (Murata)	100Vdc	33000pF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL82A333K1 H03	X8L (Murata)	100Vdc	33000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL82A473K1 H03	X8L (Murata)	100Vdc	47000pF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL82A473K1 H03	X8L (Murata)	100Vdc	47000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL82A683K1 H03	X8L (Murata)	100Vdc	68000pF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL82A683K1□□H03□	X8L (Murata)	100Vdc	68000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL82A104K1 H03	X8L (Murata)	100Vdc	0.10µF±10%	4.0×3.5	2.5	2.5	A2	DB
RHEL82A104K1□□H03□	X8L (Murata)	100Vdc	0.10µF±10%	4.0×3.5	2.5	5.0	K1	M1
RHEL82A154K2 H03	X8L (Murata)	100Vdc	0.15µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL82A154K2 H03	X8L (Murata)	100Vdc	0.15µF±10%	5.5×4.0	3.15	5.0	K1	M1
RHEL82A224K2 H03	X8L (Murata)	100Vdc	0.22µF±10%	5.5×4.0	3.15	2.5	A2	DB
RHEL82A224K2 H03	X8L (Murata)	100Vdc	0.22µF±10%	5.5×4.0	3.15	5.0	K1	M1

 $Two \ blank \ columns \ are \ filled \ with \ the \ lead \ style \ code. \ Please \ refer \ to \ the \ 3 \ columns \ on \ the \ right for \ the \ appropriate \ code.$

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack) $\,$

Specifications and Test Methods

			Specif	ication				
No.	AEC-Q200	Test Item	Temperature Compensating Type (Char. X8G)	High Dielectric Constant Type (Char. X8L)	AEC-Q200 Test Method			
1	Pre-and Post-Stress Electrical Test			-	-			
	High Tem Exposure		The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities		Sit the capacitor for 1000±12h at 150±3°C. Let sit for 24±2h at			
2		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Within ±12.5%	room condition*, then measure. •Pretreatment Perform the heat treatment at 150+0/-10°C for 60±5min and			
		Q/D.F.	Q ≧ 350	0.04 max.	then let sit for 24±2h at room condition*. (for Char. X8L)			
		I.R.	More than $1000 \mathrm{M}\Omega$ or $50 \mathrm{M}\Omega$ •	uF (Whichever is smaller)				
	Temperat Cycling	ure	The measured and observed characteristics should satisfy the specifications in the following table.		Perform the 1000 cycles according to the four heat treatments listed in the following table. Let sit for 24±2h at room			
		Appearance	No defects or abnormalities exc coating	ept color change of outer	condition*, then measure. Step 1 2 3 4			
3		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	Within ±12.5%	Temp. (°C) -55+0/-3 Room Temp. 150+3/-0 Room Temp. Time (min) 15±3 1 15±3 1			
		Q/D.F.	Q ≧ 350	0.05 max.	Pretreatment Perform the heat treatment at 150+0/-10°C for 60±5min and			
		I.R.	1000MΩ or 50MΩ • μF min. (Wh	nichever is smaller)	then let sit for 24±2h at room condition*. (for Char. X8L)			
	Moisture Resistanc	e	The measured and observed chaspecifications in the following to	,	Apply the 24h heat (25 to 65°C) and humidity (80 to 98%) treatment shown below, 10 consecutive times.			
		Appearance	No defects or abnormalities		Let sit for 24±2h at room condition*, then measure. •Pretreatment			
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	Within ±12.5%	Perform the heat treatment at 150+0/-10°C for 60±5min and then let sit for 24±2h at room condition*. (for Char. X8L)			
		Q/D.F.	Q ≧ 200	0.05 max.	Humidity Humidity Humidity Humidity (°C) 90-98% 80-98% 90-98% 90-98% 90-98% 90-98% 90-98%			
4		I.R.	500MΩ or 25MΩ • μF min. (Whi	chever is smaller)	65 50 40 40 40 20 25 50 10 10 10 10 10 11 10 10 11 10 10			
	Biased Humidity		The measured and observed characteristics should satisfy the specifications in the following table.		Apply the rated voltage and DC1.3+0.2/-0V (add $100k\Omega$ resist at $85\pm3^{\circ}$ C and 80 to 85% humidity for $1000\pm12h$.			
		Appearance	No defects or abnormalities		Remove and let sit for 24±2h at room condition*, then measure.			
5		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	Within ±12.5%	The charge/discharge current is less than 50mA. •Pretreatment			
		Q/D.F.	Q ≧ 200	0.05 max.	Perform the heat treatment at 150+0/-10°C for 60±5min and			
		I.R.	500MΩ or 25MΩ • μF min. (Whi	chever is smaller)	then let sit for 24±2h at room condition*. (for Char. X8L)			
	Operational Life		The measured and observed chaspecifications in the following to	,	Apply 150% of the rated voltage for 1000±12h at 150±3°C.			
_		Appearance	No defects or abnormalities exc coating	ept color change of outer	Let sit for 24±2h at room condition*, then measure. The charge/discharge current is less than 50mA.			
6		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Within ±12.5%	•Pretreatment Apply test voltage for 60±5 min at test temperature.			
		Q/D.F.	Q ≧ 350	0.04 max.	Remove and let sit for 24±2h at room condition*. (for Char. X8L)			
		I.R.	1000MΩ or 50MΩ • μF min. (Wh	nichever is smaller)	, , , , , , , , , , , , , , , , , , ,			
7	External Visual		No defects or abnormalities		Visual inspection			
8	Physical [Dimension	Within the specified dimensions		Using calipers and micrometers			
9	Marking		To be easily legible		Visual inspection			

 $^{^{*}}$ "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

Continued on the following page. 🖊

Specifications and Test Methods

Continued from the preceding page.

			Specif	ication				
۱o.	AEC-Q200) Test Item	Temperature Compensating Type (Char. X8G) High Dielectric Constant Type (Char. X8L)					
10		Appearance	No defects or abnormalities		Per MIL-STD-202 Method 215			
		Capacitance	Within the specified tolerance		Solvent 1: 1 part (by volume) of isopropyl alcohol 3 parts (by volume) of mineral spirits			
	Resistance	Q/D.F.	Q ≧ 1000	0.025 max.	Solvent 2: Terpene defluxer			
LU	to Solvents	I.R.	More than 10000MΩ or 500MΩ	2 • μF (Whichever is smaller)	Solvent 3: 42 parts (by volume) of water 1 part (by volume) of propylene glycol monomethyl ether 1 part (by volume) of monoethanolamine			
		Appearance	No defects or abnormalities		Three shocks in each direction should be applied along 3			
L1	Mechanical	Capacitance	Within the specified tolerance		mutually perpendicular axes of the test specimen (18 shocks). The specified test pulse should be Half-sine and should			
	Shock	Q/D.F.	Q ≧ 1000	0.025 max.	have a duration: 0.5ms, peak value: 1500G and velocity change: 4.7m/s.			
		Appearance	No defects or abnormalities		The capacitor should be subjected to a simple harmonic motion			
		Capacitance	Within the specified tolerance		having a total amplitude of 1.5mm, the frequency being varied			
12	Vibration			0.025 max.	uniformly between the approximate limits of 10 and 2000Hz. The frequency range, from 10 to 2000Hz and return to 10Hz, should be traversed in approximately 20min. This motion should be applied for 12 items in each 3 mutually perpendicula directions (total of 36 times).			
	Resistance		The measured and observed cha	•				
13 ' 1	Soldering F (Non-Preheat)		specifications in the following to	able.	The lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 10±1s.			
		Appearance			Pre-treatment			
		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Within ±7.5%	Capacitor should be stored at 150+0/-10°C for 1h, then place at room temperature for 24±2h before initial measurement. (For Char. X8L)			
		Dielectric Strength (Between Terminals)			Post-treatment Capacitor should be stored for 24±2h at room condition*.			
	Resistance to Soldering Heat		The measured and observed chaspecifications in the following to	•	First the capacitor should be stored at 120+0/-5°C for 60+0/-1			
	(On-Preheat)	Appearance	o defects or abnormalities		Then, the lead wires should be immersed in the melted solder 1 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s.			
13 ' 2		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Within ±7.5%	Pre-treatment Capacitor should be stored at 150+0/-10°C for 1h, then place			
-	Dielectri Strength (Betwee Termina		No defects		 at room temperature for 24±2h before initial measurement. (F Char. X8L) Post-treatment Capacitor should be stored for 24±2h at room condition*. 			
	Resistance Soldering H		The measured and observed chaspecifications in the following to	•	Test condition Temperature of iron-tip: 350±10°C			
	(Soldering Iron Method)	Appearance	No defects or abnormalities		Soldering time: 3.5±0.5s. Soldering position			
13	non realou)	Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Within ±7.5%	Straight Lead: 1.5 to 2.0mm from the root of terminal. Crimp Lead: 1.5 to 2.0mm from the end of lead bend.			
3		Dielectric Strength (Between Terminals)	No defects		Pre-treatment Capacitor should be stored at 150+0/-10°C for 1h, then pl at room temperature for 24±2h before initial measurement (For Char. X8L) Post-treatment Capacitor should be stored for 24±2h at room condition*.			
	Thermal Shock		The measured and observed characteristics should satisfy the specifications in the following table.		Perform the 300 cycles according to the two heat treatments listed in the following table (Maximum transfer time is 20s).			
		Appearance	No defects or abnormalities		Let sit for 24±2h at room condition*, then measure.			
14		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	Within ±12.5%	Step 1 2 Temp. (°C) -55+0/-3 150+3/-0 Time (min) 15±3 15±3			
		Q/D.F.	Q ≧ 350	0.05 max.	•Pretreatment			
		I.R.	1000MΩ or 50MΩ • μF min. (Wh	nichever is smaller)	Perform the heat treatment at 150+0/-10°C for 60±5min ar then let sit for 24±2h at room condition*. (for Char. X8L)			
		Appearance	No defects or abnormalities					
		Capacitance	Within the specified tolerance		5. 450 0000 000			
15	ESD	Q/D.F.	Q ≧ 1000	0.025 max.	Per AEC-Q200-002			
		I.R.	More than $10000M\Omega$ or $500M\Omega$	2 • μF (Whichever is smaller)				

 $^{^{\}star}$ "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

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Specifications and Test Methods

Continued from the preceding page.

Con	Continued from the preceding page.									
No	AEC-Q200) Tost Itom	Specification			AEC-Q200 Test Method				
140.	AEC-Q200) rest item	Temperature Compensating Type High Dielectric Constant (Char. X8G) (Char. X8L)			AEC-Q200	rest Method			
16	16 Solderability		Lead wire should be soldered with uniform coating on the axial direction over 95% of the circumferential direction.		The terminal of a capacitor is dipped into a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25%rosin in weight propotion) and then into molten solder (JIS-Z-3282) for 2±0.5s. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body. Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) 235±5°C H60A or H63A Eutectic Solder					
		Appearance	No defects or abnormalities		Visual inspection					
		Capacitance	Within the spec	cified tolerance		The capacitance, Q/D.F. should	be measured at 25°C at the			
		Q/D.F.	Q ≧ 1000		0.025 max.	C ≤ 1000pF 1±0.1 10µF ≥ C > 1000pF 1±0.2	the table. uency			
		Insulation	Room Temperature	10000MΩ or 5 (Whichever is s	00MΩ • μF min. smaller)	The insulation resistance should DC voltage not exceeding the retemperature and humidity and \((Charge/Discharge current \u00e9 50)\)	within 2min of charging.			
17	Electrical Charac- terization	Resistance (I.R.)	High Temperature	100MΩ or 5MΩ (Whichever is s	•	The insulation resistance should be measured at 150±3°C with a DC voltage not exceeding the rated voltage at normal temperature and humidity and within 2min of charging. (Charge/Discharge current ≤ 50mA.)				
	tenzation	Dielectric Strength	Between Terminals	No defects or a	abnormalities	The capacitor should not be dar 300% of the rated voltage (for 0 250% of the rated voltage (for 0 the terminations for 1 to 5s. (Charge/Discharge current ≤ 50	Char. X8G) or DC voltage of Char. X8L) is applied between			
			Body Insulation	No defects or a	abnormalities	The capacitor is placed in a cont with metal balls of 1mm diamet that each terminal, short-circuit approximately 2mm from the bactor of the proximately 2mm from the bactor of the rated DC voltage is impressed for 1 to 5s between capacitor terminals and metal bactor (Charge/Discharge current ≤ 50	er so is kept alls, and Approx. 2mm			
18	Terminal	Tensile Strength	Termination no	t to be broken o	r loosened	As in the figure, fix the capacito apply the force gradually to eac in the radial direction of the cap until reaching 10N and then kee force applied for 10±1s.	h lead acitor			
	Strength	Bending Strength	Termination no	ot to be broken o	r loosened	Each lead wire should be subject be bent 90° at the point of egre then returned to the original pos opposite direction at the rate of	ss in one direction. Each wire is sition and bent 90° in the			
19	Temperat	Capacitance Temperature Characteristics Char. Temperature Coefficient 25 to 150°C: 0±30ppm/°C -55 to 25°C: 0+30/-72ppm/°C		Within ±15% (Temp. Range: -55 to +125°C) Within +15/-40% (Temp. Range: +125 to +150°C)	specified temperature step. Step 1 2 3 4 5 The temperature coefficient or 1 change is determined using the step 3 as a reference. •Pretreatment	capacitance measured in : 150+0/-10°C for 60±5 min and condition*.				

^{* &}quot;room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

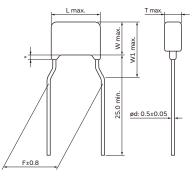
200°C Operation Leaded MLCC for Automotive

RHS Series (DC100V-DC500V)

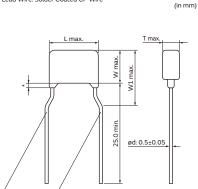
Features

- 1. Small size and large capacitance
- 2. Low ESR and ESL suitable for high frequency
- 3. Applied maximum temperature up to 200°C Note: Maximum accumulative time is within 2000 hours.
- 4. Meet AEC-Q200, ISO7637-2 (surge test) requirement
- 5. Meet LF (Lead Free) and HF (Halogen Free)
- 6. Flow soldering and welding are available. (Re-flow soldering is not available.)
- 7. If copper wire is necessary at welding process, copper wire is available based on request.



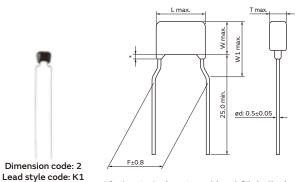


- Coating extension does not exceed the end of the lead bend.
- Lead Wire: Solder Coated CP Wire



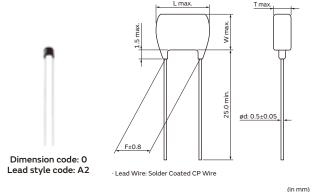
Dimension code: 1 Lead style code: K1

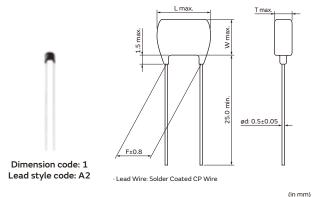
- * Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire

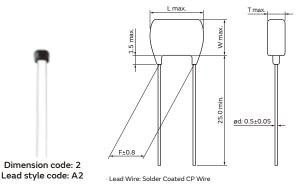


- * Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire

(in mm)







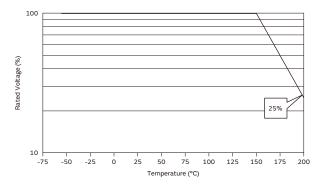
Dimensions

Dimensions and	Dimensions (mm)										
Lead Style Code	L	W	W1	Т	F	d					
0A2/0DG	3.9	3.5	-		2.5	0.5					
0K1/0M2	3.9	3.5	6.0		5.0	0.5					
1A2/1DG	4.2	3.5	-	See the individual	2.5	0.5					
1K1/1M2	4.2	3.5	5.0	product specification	5.0	0.5					
2A2/2DG	5.5	4.0	-		2.5	0.5					
2K1/2M1	5.5	4.0	6.0		5.0	0.5					

Rated Voltage

When the product temperature exceeds 150°C, please use this product within the voltage and temperature derated conditions in the figure below.

Maximum operating temperature



Marking

Rated Voltage	DC1	00V	DC200V	DC500V					
Dimension Code Temp. Char.	ccg	X9Q	UI	ŊĴ					
0	4	N	_	_					
1	1011	\103K	2 101J	_					
2	_	© 224 K1N	(M103) J62	(M101) J92					
Temperature Characteristics	Marked with code (CCG Ch	nar.: 4, UNJ Char.: 2, X9Q Ch	ar.: N)						
Nominal Capacitance	Marked with 3 figures								
Capacitance Tolerance	Marked with code								
Rated Voltage	,	Marked with code (DC100V: 1, DC200V: 6, DC500V: 9) Apart is omitted (Please refer to the marking example.)							
Manufacturer's Identification	Marked with M A part is omitted (Please re	efer to the marking example	.)						

■ Temperature Compensating Type, CCG/UNJ Characteristics

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RHS7G2A101J0 H01	CCG (Murata)	100Vdc	100pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A101J0 H01	CCG (Murata)	100Vdc	100pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A121J0 H01	CCG (Murata)	100Vdc	120pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A121J0□□H01□	CCG (Murata)	100Vdc	120pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A151J0 H01	CCG (Murata)	100Vdc	150pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A151J0 H01	CCG (Murata)	100Vdc	150pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A181J0 H01	CCG (Murata)	100Vdc	180pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A181J0 H01	CCG (Murata)	100Vdc	180pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A221J0 H01	CCG (Murata)	100Vdc	220pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A221J0 H01	CCG (Murata)	100Vdc	220pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A271J0 H01	CCG (Murata)	100Vdc	270pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A271J0□□H01□	CCG (Murata)	100Vdc	270pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A331J0 H01	CCG (Murata)	100Vdc	330pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A331J0□□H01□	CCG (Murata)	100Vdc	330pF±5%	3.9×3.5	2.6	5.0	K1	M2

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	age. 🌂			Dii	Dimension	l and Conne	Land Chala	Land Chida
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW	Dimension T	Lead Space F	Lead Style Code	Lead Style Code
DUS7024201 IO□□U01□		, in the second	200=5+59/	(mm)	(mm)	(mm)	Bulk	Taping
RHS7G2A391J0 H01	CCG (Murata)	100Vdc	390pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A391J0 H01	CCG (Murata)	100Vdc	390pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A471J0 H01	CCG (Murata)	100Vdc	470pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A471J0 H01	CCG (Murata)	100Vdc	470pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A561J0 H01	CCG (Murata)	100Vdc	560pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A561J0 H01	CCG (Murata)	100Vdc	560pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A681J0 H01	CCG (Murata)	100Vdc	680pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A681J0 H01	CCG (Murata)	100Vdc	680pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A821J0 H01	CCG (Murata)	100Vdc	820pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A821J0 H01	CCG (Murata)	100Vdc	820pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A102J0 H01	CCG (Murata)	100Vdc	1000pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A102J0 H01	CCG (Murata)	100Vdc	1000pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A152J0 H01	CCG (Murata)	100Vdc	1500pF±5%	3.9×3.5	2.6	2.5	A2	DG
RHS7G2A152J0 H01	CCG (Murata)	100Vdc	1500pF±5%	3.9×3.5	2.6	5.0	K1	M2
RHS7G2A222J1 H01	CCG (Murata)	100Vdc	2200pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7G2A222J1 H01	CCG (Murata)	100Vdc	2200pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7G2A272J1 H01	CCG (Murata)	100Vdc	2700pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7G2A272J1 HO1	CCG (Murata)	100Vdc	2700pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7G2A332J1 HO1	CCG (Murata)	100Vdc	3300pF±5%	4.2×3.5	2.8	2.5	A2	DG M2
RHS7G2A332J1 H01 RHS7J2D101J1 H01	CCG (Murata) UNJ (Murata)	100Vdc 200Vdc	3300pF±5% 100pF±5%	4.2×3.5 4.2×3.5	2.8	5.0 2.5	K1 A2	M2 DG
	, ,	200Vdc		4.2×3.5 4.2×3.5	2.8	5.0	K1	M2
RHS7J2D101J1 H01	UNJ (Murata)	200Vdc	100pF±5%		2.8			DG
RHS7J2D151J1 H01 RHS7J2D151J1 H01	UNJ (Murata) UNJ (Murata)	200Vdc	150pF±5%	4.2×3.5 4.2×3.5	2.8	2.5 5.0	A2 K1	M2
RHS7J2D131J1 H01 H01	UNJ (Murata)	200Vdc	150pF±5% 220pF±5%	4.2×3.5 4.2×3.5	2.8	2.5	A2	DG
RHS7J2D221J1 H01	UNJ (Murata)	200Vdc	220pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D331J1 H01	UNJ (Murata)	200Vdc	330pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D331J1 H01	UNJ (Murata)	200Vdc	330pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D471J1 H01	UNJ (Murata)	200Vdc	470pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D471J1 H01	UNJ (Murata)	200Vdc	470pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D681J1 H01	UNJ (Murata)	200Vdc	680pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D681J1	UNJ (Murata)	200Vdc	680pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D102J1 H01	UNJ (Murata)	200Vdc	1000pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D102J1 H01	UNJ (Murata)	200Vdc	1000pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D152J1 H01	UNJ (Murata)	200Vdc	1500pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D152J1□□H01□	UNJ (Murata)	200Vdc	1500pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D222J1 H01	UNJ (Murata)	200Vdc	2200pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D222J1□□H01□	UNJ (Murata)	200Vdc	2200pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D332J1□□H01□	UNJ (Murata)	200Vdc	3300pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D332J1□□H01□	UNJ (Murata)	200Vdc	3300pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D472J1□□H01□	UNJ (Murata)	200Vdc	4700pF±5%	4.2×3.5	2.8	2.5	A2	DG
RHS7J2D472J1□□H01□	UNJ (Murata)	200Vdc	4700pF±5%	4.2×3.5	2.8	5.0	K1	M2
RHS7J2D682J2□□H01□	UNJ (Murata)	200Vdc	6800pF±5%	5.5×4.0	3.3	2.5	A2	DG
RHS7J2D682J2□□H01□	UNJ (Murata)	200Vdc	6800pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2D103J2□□H01□	UNJ (Murata)	200Vdc	10000pF±5%	5.5×4.0	3.3	2.5	A2	DG
RHS7J2D103J2□□H01□	UNJ (Murata)	200Vdc	10000pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H101J2 H01	UNJ (Murata)	500Vdc	100pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H151J2□□H01□	UNJ (Murata)	500Vdc	150pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H221J2□□H01□	UNJ (Murata)	500Vdc	220pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H331J2□□H01□	UNJ (Murata)	500Vdc	330pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H471J2□□H01□	UNJ (Murata)	500Vdc	470pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H681J2□□H01□	UNJ (Murata)	500Vdc	680pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H102J2□□H01□	UNJ (Murata)	500Vdc	1000pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H152J2□□H01□	UNJ (Murata)	500Vdc	1500pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H222J2□□H01□	UNJ (Murata)	500Vdc	2200pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H332J2□□H01□	UNJ (Murata)	500Vdc	3300pF±5%	5.5×4.0	3.3	5.0	K1	M2
RHS7J2H472J2 H01	UNJ (Murata)	500Vdc	4700pF±5%	5.5×4.0	3.3	5.0	K1	M2

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RHSQ92A472K0□□H01□	X9Q (Murata)	100Vdc	4700pF±10%	3.9×3.5	2.6	2.5	A2	DG
RHSQ92A472K0□□H01□	X9Q (Murata)	100Vdc	4700pF±10%	3.9×3.5	2.6	5.0	K1	M2
RHSQ92A682K0□□H01□	X9Q (Murata)	100Vdc	6800pF±10%	3.9×3.5	2.6	2.5	A2	DG
RHSQ92A682K0□□H01□	X9Q (Murata)	100Vdc	6800pF±10%	3.9×3.5	2.6	5.0	K1	M2
RHSQ92A103K0□□H01□	X9Q (Murata)	100Vdc	10000pF±10%	3.9×3.5	2.6	2.5	A2	DG
RHSQ92A103K0□□H01□	X9Q (Murata)	100Vdc	10000pF±10%	3.9×3.5	2.6	5.0	K1	M2
RHSQ92A153K0□□H01□	X9Q (Murata)	100Vdc	15000pF±10%	3.9×3.5	2.6	2.5	A2	DG
RHSQ92A153K0□□H01□	X9Q (Murata)	100Vdc	15000pF±10%	3.9×3.5	2.6	5.0	K1	M2
RHSQ92A223K0□□H01□	X9Q (Murata)	100Vdc	22000pF±10%	3.9×3.5	2.6	2.5	A2	DG
RHSQ92A223K0□□H01□	X9Q (Murata)	100Vdc	22000pF±10%	3.9×3.5	2.6	5.0	K1	M2
RHSQ92A333K1□□H01□	X9Q (Murata)	100Vdc	33000pF±10%	4.2×3.5	2.8	2.5	A2	DG
RHSQ92A333K1□□H01□	X9Q (Murata)	100Vdc	33000pF±10%	4.2×3.5	2.8	5.0	K1	M2
RHSQ92A473K1□□H01□	X9Q (Murata)	100Vdc	47000pF±10%	4.2×3.5	2.8	2.5	A2	DG
RHSQ92A473K1□□H01□	X9Q (Murata)	100Vdc	47000pF±10%	4.2×3.5	2.8	5.0	K1	M2
RHSQ92A683K1□□H01□	X9Q (Murata)	100Vdc	68000pF±10%	4.2×3.5	2.8	2.5	A2	DG
RHSQ92A683K1□□H01□	X9Q (Murata)	100Vdc	68000pF±10%	4.2×3.5	2.8	5.0	K1	M2
RHSQ92A104K1□□H01□	X9Q (Murata)	100Vdc	0.1µF±10%	4.2×3.5	2.8	2.5	A2	DG
RHSQ92A104K1□□H01□	X9Q (Murata)	100Vdc	0.1µF±10%	4.2×3.5	2.8	5.0	K1	M2
RHSQ92A154K2□□H01□	X9Q (Murata)	100Vdc	0.15µF±10%	5.5×4.0	3.3	2.5	A2	DG
RHSQ92A154K2□□H01□	X9Q (Murata)	100Vdc	0.15µF±10%	5.5×4.0	3.3	5.0	K1	M2
RHSQ92A224K2□□H01□	X9Q (Murata)	100Vdc	0.22µF±10%	5.5×4.0	3.3	2.5	A2	DG
RHSQ92A224K2□□H01□	X9Q (Murata)	100Vdc	0.22µF±10%	5.5×4.0	3.3	5.0	K1	M2

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code.

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack)

Temperature Compensating Type Specifications and Test Methods

No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method				
1	Pre-and Pe			-				
		Appearance	No defects or abnormalities except color change of outer coating					
2	High Temperature Exposure	Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Sit the capacitor for 1000±12h at 200±5°C. Let sit for 24±2h at				
	(Storage)	Q	Q ≧ 350	room condition*, then measure.				
		I.R.	1000MΩ min.					
		Appearance	No defects or abnormalities except color change of outer coating	Perform the 1000 cycles according to the four heat treatments listed in the following table. Let sit for 24±2h at room condition*,				
3	Temperature Cycling	Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	then measure.				
		Q	Q ≧ 350	Temp. (°C) -55+0/-3 Room Temp. 200+5/-0 Room Temp.				
		I.R.	1000MΩ min.	Time (min) 15±3 1 15±3 1				
		Appearance	No defects or abnormalities	Apply the 24h heat (25 to 65°C) and humidity (80 to 98%)				
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	treatment shown below, 10 consecutive times. Let sit for 24±2h at room condition*, then measure.				
		Q	Q ≧ 200	Humidity Humidity Humidity Humidity Humidity (°C) 90-98% 80-98% 90-98% 80-98% 90-98%				
4	Moisture Resistance	I.R.	500MΩ min.	65 60 55 50 45 8 35 8 35 8 35 8 35 8 35 8 35 8 35 8 3				
		Appearance	No defects or abnormalities					
5	Biased Humidity	Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	Apply the rated voltage and DC1.3+0.2/-0 V (add $100k\Omega$ resistor) at $85\pm3^{\circ}$ C and 80 to 85% humidity for $1000\pm12h$. Remove and let sit for $24\pm2h$ at room condition*, then measure.				
	ridifficity	Q	Q ≧ 200	The charge/discharge current is less than 50mA.				
		I.R.	500MΩ min.					
		Appearance	No defects or abnormalities except color change of outer coating	A 1 250 5th 1 1 1 5 4222 421 1 222 522				
6	Operational Life	Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Apply 25% of the rated voltage for 1000±12h at 200±5°C. Let sit for 24±2h at room condition*, then measure The charge/discharge current is less than 50mA.				
		Q	Q ≧ 350					
		I.R.	1000MΩ min.					
7	External \	/isual	No defects or abnormalities	Visual inspection				
8	Physical D	Dimension	Within the specified dimensions	Using calipers and micrometers				
9	Marking		To be easily legible	Visual inspection				
		Appearance	No defects or abnormalities	Per MIL-STD-202 Method 215				
		Capacitance	Within the specified tolerance	Solvent 1: 1 part (by volume) of isopropyl alcohol 3 parts (by volume) of mineral spirits				
10	Resistance	Q	Q ≧ 1000	Solvent 2: Terpene defluxer				
	to Solvents	I.R.	10000MΩ min.	Solvent 3: 42 parts (by volume) of water 1part (by volume) of propylene glycol monomethyl ether 1 part (by volume) of monoethanolamine				
		Appearance	No defects or abnormalities	Three shocks in each direction should be applied along				
11	Mechanical	Capacitance	Within the specified tolerance	3 mutually perpendicular axes of the test specimen (18 shocks). The specified test pulse should be Half-sine and should have a				
	Shock	Q	Q ≧ 1000	duration: 0.5ms, peak value: 1500G and velocity change: 4.7m/s.				

 $^{^{*}\ &}quot;room\ condition"\ \ Temperature:\ 15\ to\ 35\ "C,\ Relative\ humidity:\ 45\ to\ 75\ "K,\ Atmosphere\ pressure:\ 86\ to\ 106\ "kPa"$

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Temperature Compensating Type Specifications and Test Methods

Continued from the preceding page.

No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method				
		Appearance Capacitance	No defects or abnormalities Within the specified tolerance	The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 2000Hz.				
12	Vibration	Q	Q ≧ 1000	The frequency range, from 10 to 2000Hz and return to 10Hz, should be traversed in approximately 20min. This motion should be applied for 12 items in each 3 mutually perpendicular directions (total of 36 times).				
		Appearance	No defects or abnormalities					
13	Resistance to	Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	The lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 10±1s.				
1	Soldering Heat (Non-Preheat)	Dielectric Strength (Between Terminals)	No defects	Post-treatment Capacitor should be stored for 24±2h at room condition*.				
		Appearance	No defects or abnormalities					
13		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	First the capacitor should be stored at 120+0/-5°C for 60+0/-5 Then, the lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
2	Soldering Heat (On-Preheat)	Dielectric Strength (Between Terminals)	No defects					
		Appearance	No defects or abnormalities	Test condition				
13	Resistance to Soldering Heat	Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Termperature of iron-tip: 350±10°C Soldering time: 3.5±0.5s. Soldering position Straight Lead: 1.5 to 2.0mm from the root of terminal. Crimp Lead: 1.5 to 2.0mm from the end of lead bend. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
3	Soldering Heat (soldering iron method)	Dielectric Strength (Between Terminals)	No defects					
		Appearance	No defects or abnormalities	Perform the 300 cycles according to the two heat treatments				
14	Thermal	Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	listed in the following table (Maximum transfer time is 20s). Let sit for 24±2h at room condition*, then measure.				
	Shock	Q	Q ≥ 350	Step 1 2 Temp. (°C) -55+0/-3 200+5/-0				
		I.R.	1000MΩ min.	Time (min) 15±3 15±3				
		Appearance	No defects or abnormalities					
		Capacitance	Within the specified tolerance					
15	ESD	Q	Q ≧ 1000	Per AEC-Q200-002				
		I.R.	10000MΩ min.					
16			Lead wire should be soldered with uniform coating on the axial direction over 95% of the circumferential direction.	The terminal of a capacitor is dipped into a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight propotion) and then into molten solder (JIS-Z-3282) for 2±0.5s. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body. Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu)				

 $^{^{\}star}\ \text{``room condition''}\ \ \text{Temperature: 15 to 35°C, Relative humidity: 45 to 75\%, Atmosphere pressure: 86 to 106 kPa}$

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Temperature Compensating Type Specifications and Test Methods

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No.	AEC-Q200) Test Item	Specif	ıcations	AEC-Q2	00 Test Method		
		Appearance	No defects or abnormalities		Visual inspection			
		Capacitance	Within the specified tolerance		The capacitance, Q should b frequency and voltage show			
		Q	Q ≧ 1000		C ≦ 1000pF 1: 10µF ≧ C > 1000pF 1	requency Voltage ±0.1MHz AC0.5 to 5V (r.m.s.) ±0.1kHz AC1±0.2V (r.m.s.) 20±24Hz AC0.5±0.1V (r.m.s.)		
		I.R.	Room Temperature	10000MΩ min.	The insulation resistance sho DC voltage not exceeding th temperature and humidity a (Charge/Discharge current s	nd within 2min of charging.		
		I.R.	High Temperature	20MΩ min.	The insulation resistance should be measured at 200±5°C with a DC voltage not exceeding 25% of the rated voltage at normal temperature and humidity and within 2min of charging. (Charge/Discharge current ≤ 50mA)			
17	Electrical Charac- terization		Between Terminals	No defects or abnormalities	The capacitor should not be damaged when voltage in table applied between the terminations for 1 to 5s. (Charge/Discharge current ≤ 50mA.) Rated Voltage DC100V DC200V DC200V DC500V D			
		Dielectric Strength	Body Insulation	No defects or abnormalities	The capacitor is placed in a cometal balls of 1mm diamete terminal, short-circuit, is kep 2mm from the balls as show and voltage in table is impre between capacitor terminals metal balls. (Charge/Discharge current services of the company of the	r so that each of approximately in the figure, ssed for 1 to 5s s and		
					Rated Voltage DC100V, DC200V DC500V	Test Voltage 250% of the rated voltage 150% of the rated voltage		
18	Terminal Strength	Tensile Strength	Termination not to be broken o	r loosened	As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep the force applied for 10±1s.			
		Bending Strength			Each lead wire should be subjected to a force of 2.5N and then be bent 90° at the point of egress in one direction. Each wire is then returned to the original position and bent 90° in the opposite direction at the rate of one bend per 2 to 3s.			
					The capacitance change sho each specified temperature	ould be measured after 5min at step.		
			Within the specified Tolerance		Step 1	Temperature (°C) 25±2		
					2	-55±3 25±2		
	Consoit	•••	Char. Tempe -55 to 25°C: 0+30	rature Coefficient 0/-72ppm/°C	4	25±2 200±5		
19	Capacitar Temperat		CCG 25 to 125°C: 0±30		5	25±2		
13	Character		125 to 200°C: 0+ -55 to 25°C: -750 UNJ 25 to 125°C: -750	72/-30ppm/°C 0+120/-347ppm/°C	The temperature coefficient is determind using the capacitance measured in step 3 as a reference. When cycling the temperature sequentially from step 1 through 5 (-55 to +200°C) the capacitance should be within the specified tolerance for the temperature coefficient.			
						culated by dividing the differences I minimum measured values in the itance value in step 3.		

High Dielectric Constant Type Specifications and Test Methods

No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method				
1	Pre-and P			-				
	High	Appearance	No defects or abnormalities except color change of outer coating	Sit the capacitor for 1000±12h at 200±5°C. Let sit for 24±2h				
2	Temperature Exposure	Capacitance Change	Within ±12.5%	at room condition*, then measure. •Pretreatment				
	(Storage)	D.F.	0.04 max.	Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*.				
		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	ter siciol 2 12211 del 186111 estidición :				
		Appearance	No defects or abnormalities except color change of outer coating	Perform the 1000 cycles according to the four heat treatments listed in the following table. Let sit for 24±2h at room condition*,				
	Tomporatura	Capacitance Change	Within ±12.5%	then measure. Step 1 2 3 4				
3	Temperature Cycling	D.F.	0.05 max.	Temp. (°C) -55+0/-3 Room Temp. 200+5/-0 Room Temp.				
		I.R.	1000Μ Ω or 50Μ Ω • μF min. (Whichever is smaller)	Time (min) 15±3 1 15±3 1 •Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*.				
		Appearance	No defects or abnormalities	Apply the 24h heat (25 to 65°C) and humidity (80 to 98%)				
		Capacitance Change	Within ±12.5%	treatment shown below, 10 consecutive times. Let sit for 24±2h at room condition*, then measure.				
		D.F.	0.05 max.	Humidity Humidity Humidity Humidity (°C) 90-98% 80-98% 90-98% 80-98% 90-98% 70				
4	Moisture Resistance	I.R.	500MΩ or 25MΩ • μF min. (Whichever is smaller)	0 1 2 3 4 5 6 7 8 9 101112131415161718192021222324 +Pretreatment				
				Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*.				
		Appearance	No defects or abnormalities	Apply the rated voltage and DC1.3+0.2/-0 V (add 100kΩ resistor) at 85±3°C and 80 to 85% humidity for 1000±12h.				
5	Biased Humidity	Capacitance Change	Within ±12.5%	Remove and let sit for 24±2h at room condition*, then measure. The charge/discharge current is less than 50mA.				
	,	D.F.	0.05 max.	•Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then				
		I.R.	500MΩ or 25MΩ • μF min. (Whichever is smaller)	let sit for 24±2h at room condition*.				
		Appearance	No defects or abnormalities except color change of outer coating	Apply 25% of the rated voltage for 1000±12h at 200±5°C. Let sit for 24±2h at room condition*, then measure.				
6	Operational Life	Capacitance Change	Within ±15%	The charge/discharge current is less than 50mA. •Pretreatment				
		D.F.	0.04 max.	Apply test voltage for 60±5min at test temperature. Remove and let sit for 24±2h at room condition*.				
		I.R.	100MΩ or 5MΩ • μF min. (Whichever is smaller)	1.0.1.0.1.0 2.1.2 1.2.1.2.1.2.1.3.1.1.3.1.1.3.1.1.3.1.1.3.1.1.1.1				
7	External \	/isual	No defects or abnormalities	Visual inspection				
8	Physical E	Dimension	Within the specified dimensions	Using calipers and micrometers				
9	Marking		To be easily legible	Visual inspection				
		Appearance	No defects or abnormalities	Per MIL-STD-202 Method 215				
		Capacitance	Within the specified tolerance	Solvent 1: 1 part (by volume) of isopropyl alcohol 3 parts (by volume) of mineral spirits				
10	Resistance to Solvents	D.F.	0.025 max. $10000 M\Omega \text{ or } 500 M\Omega \cdot \mu \text{F min. (Whichever is smaller)}$	Solvent 2: Terpene defluxer Solvent 3: 42 parts (by volume) of water 1part (by volume) of propylene glycol monomethyl ether 1 part (by volume) of monoethanolamine				

 $^{^{\}star}$ "room condition" Temperature: 15 to 35 °C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

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High Dielectric Constant Type Specifications and Test Methods

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No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method					
	Mechanical	Appearance	No defects or abnormalities	Three shocks in each direction should be applied along 3 mutually perpendicular axes of the test specimen (18 shocks).					
11	Shock	Capacitance	Within the specified tolerance	The specified test pulse should be Half-sine and should have a					
		D.F.	0.025 max.	duration: 0.5ms, peak value: 1500G and velocity change: 4.7m/s.					
		Appearance	No defects or abnormalities	The capacitor should be subjected to a simple harmonic motion					
		Capacitance	Within the specified tolerance	having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 2000Hz.					
12	Vibration	D.F.	0.025 max.	The frequency range, from 10 to 2000Hz and return to 10Hz, should be traversed in approximately 20min. This motion should be applied for 12 items in each 3 mutually perpendicular directions (total of 36 times).					
		Appearance	No defects or abnormalities	The lead wires should be immersed in the melted solder 1.5 to					
13	Resistance to	Capacitance Change	Within ±7.5%	2.0mm from the root of terminal at 260±5°C for 10±1s. •Pretreatment					
1	Soldering Heat (Non-Preheat)	Dielectric Strength (Between Terminals)	No defects	Perform the heat treatment at 150+0/-10°C for 1h and ther let sit for 24±2h at room condition*. •Post-treatment Capacitor should be stored for 24±2h at room condition*.					
		Appearance	No defects or abnormalities	First the capacitor should be stored at 120+0/-5°C for 60+0/-5s.					
13	Resistance to	Capacitance Change	Within ±7.5%	Then, the lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s.					
2	Soldering Heat (On-Preheat)	Dielectric Strength (Between Terminals)	No defects	 Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*. Post-treatment Capacitor should be stored for 24±2h at room condition*. 					
		Appearance	No defects or abnormalities	Test condition					
		Capacitance Change	Within ±7.5%	Termperature of iron-tip: 350±10°C Soldering time: 3.5±0.5s Soldering position					
13	Resistance to Soldering Heat (Soldering Iron Method)	Dielectric Strength (Between Terminals)	No defects	Straight Lead: 1.5 to 2.0mm from the root of terminal. Crimp Lead: 1.5 to 2.0mm from the end of lead bend. •Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*. •Post-treatment Capacitor should be stored for 24±2h at room condition*.					
		Appearance	No defects or abnormalities	Perform the 300 cycles according to the two heat treatments					
		Capacitance Change	Within ±12.5%	listed in the following table (Maximum transfer time is 20s). Let sit for 24±2h at room condition*, then measure.					
14	Thermal	D.F.	0.05 max.	Step 1 2 Temp. (°C) -55+0/-3 200+5/-0					
	Shock	I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	Time (min) 15±3 15±3 •Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*.					
		Appearance	No defects or abnormalities						
4.5	ESD	Capacitance	Within the specified tolerance	5 450 0000 000					
15	ESD	D.F.	0.025 max.	Per AEC-Q200-002					
		I.R.	10000Μ Ω or 500Μ Ω • μ F min. (Whichever is smaller)						
16	Solderabil	lity	Lead wire should be soldered with uniform coating on the axial direction over 95% of the circumferential direction.	The terminal of a capacitor is dipped into a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% rosin in weight propotion) and then into molten solder (JIS-Z-3282) for 2±0.5s. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body. Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu)					
+ "-		:" T	perature: 15 to 35°C Relative humidity: 45 to 75%. Atmosphere n						

 $^{{\}rm *`"room\ condition"}\ \ {\rm Temperature:15\ to\ 35°C,Relative\ humidity:45\ to\ 75\%,Atmosphere\ pressure:86\ to\ 106kPa}$

Continued on the following page. ${\cal J}$

High Dielectric Constant Type Specifications and Test Methods

No.	AEC-Q200	Test Item	Specifications		AEC-Q2	200 Test Method			
		Appearance	No defects or abnorm	nalities	Visual inspection				
		Capacitance	Within the specified t	olerance		d be measured at 25°C at the			
		D.F.	0.025 max.		C ≤ 1000pF 1 10µF ≥ C > 1000pF 1	requency Voltage L±0.1MHz AC0.5 to 5V (r.m.s.) 1±0.1kHz AC1±0.2V (r.m.s.) .20±24Hz AC0.5±0.1V (r.m.s.)			
		I.R.	Room Temperature	10000MΩ or 500MΩ • μF min. (Whichever is smaller)	DC voltage not exceeding th	and within 2min of charging.			
17	Electrical Charac- terization	i.R.	High Temperature	0.5MΩ or 0.1MΩ • μF min. (Whichever is smaller)	a DC voltage not exceeding	nould be measured at 200±5°C with 25% of the rated voltage at normal and within 2min of charging. ≤ 50mA)			
			Between Terminals	No defects or abnormalities	The capacitor should not be damaged when DC voltage of 250% of the rated voltage is applied between the terminatior for 1 to 5s. (Charge/Discharge current ≤ 50mA.)				
		Dielectric Strength	Body Insulation	No defects or abnormalities	The capacitor is placed in a metal balls of 1mm diamete terminal, short-circuit, is key 2mm from the balls as show and 250% of the rated DC vimpressed for 1 to 5s betwee terminals and metal balls. (Charge/Discharge current)	er so that each pt approximately vn in the figure, voltage is een capacitor 98888888888888			
18	Terminal Strength	Tensile Strength	Termination not to be	e broken or loosened	As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep the force applied for 10±1s.				
		Bending Strength			be bent 90° at the point of 6	bjected to a force of 2.5N and then egress in one direction. Each wire is all position and bent 90° in the te of one bend per 2 to 3s.			
					The capacitance change she each specified temperature	ould be measured after 5min at step. Temperature (°C)			
					1	25±2			
					2	-55±3 25±2			
	Capacitar		Within the specified T		4	200±5			
19	Temperat Character		-55 to 125°C: Within 125 to 200°C: Within		5 25±2 The ranges of capacitance change compared with the above 25°C value over the temperature ranges shown in the table should be within the specified ranges. •Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*. Perform the initial measurement.				

 $^{^{\}star}\ \text{"room condition"}\ \ \text{Temperature: 15 to 35°C, Relative humidity: 45 to 75\%, Atmosphere pressure: 86 to 106 kPa}$

T max.

Leaded MLCC for General Purpose

■ RDE Series (DC25V-DC1kV)

Features

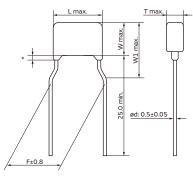
- 1. Small size and large capacitance
- 2. Low ESR characteristics for high frequency
- 3. Meet LF (Lead Free) and HF (Halogen Free)
- 4. Flow soldering is available, but re-flow soldering is not available.

Applications

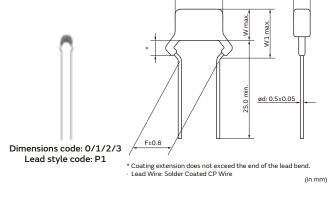
General electronic equipment

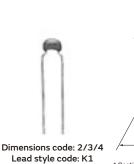
(Do not use for automotive-related power train and safety equipment.)

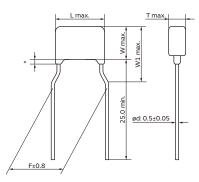




- Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire



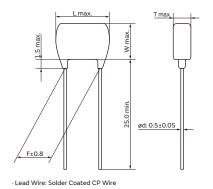




Coating extension does not exceed the end of the lead bend Lead Wire: Solder Coated CP Wire

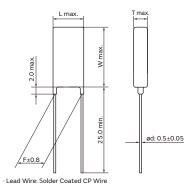


Dimensions code: 5 Lead style code: B1



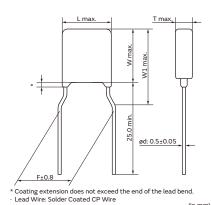
(in mm)





(in mm)

Dimensions code: W Lead style code: K1



Dimensions

Dimensions and				Dimensions (mm)		
Lead Style Code	L	W	W1	Т	F	d
0P1/0S1	5.0	3.5	6.0		2.5	0.5
0K1/0M1	4.0	3.5	6.0		5.0	0.5
1P1/1S1	5.0	3.5	5.0		2.5	0.5
1K1/1M1	4.5	3.5	5.0		5.0	0.5
2P1/2S1	5.5	4.0	6.0		2.5	0.5
2K1/2M1	5.5	4.0	6.0	See the individual	5.0	0.5
3P1/3S1	5.5	5.0	7.5	product specification	2.5	0.5
3K1/3M1	5.5	5.0	7.5		5.0	0.5
4K1/4M1	7.5	5.5	8.0		5.0	0.5
5B1/5E1	7.5	7.5*	-		5.0	0.5
UB1/UE1	7.7	12.5*	-		5.0	0.5
WK1/WM1	5.5	7.5	10.0		5.0	0.5

*DC630V, DC1kV: W+0.5mm

Marking

Marking	rial King											
Rated Voltage	DC2	5V	D	C50V			DC100V		DC250V	DC500V	DC630V	DC1kV
Dimensions Temp. Code Char.	X7S	X7R	COG	X7S	X7R	COG	X7S	X7R		X7R, U	2J, C0G	
0		104K		-			-		-		-	-
1	224K	-	A 102J	-	224K	A 102J	-	224K	U 102J (U2J) (U2J)	(X7R)	-	-
2	(H475)	-	(F 563) J5A	(M 475 K5C)	(M 105 K5C)	(M103)	-	(Mark 105)	(U2J) (U2J) (U2J) (X7R) (X7R) (C0G)	153 K9C (X7R)	(U2J) (U2J) (U2J) (X7R) (X7R) (C0G)	(U2J) (U2J) (U2J) (V7R) (X7R) (COG)
3, 4, W	(M226 K2C	-	-	(M226 K5C)	(M335) K5C	-	(№225 K1C)	-	(U2J) (U2J) (W224 K4C (X7R)	(X7R)	(U2J) (U2J) (W104 (K7C) (X7R)	(U2J) (W333 (X7R)
5, U	-	-	-	-	-	-	-	-	- (M 474 K4C (X7R)	(X7R)	(U2J) (U2J) (W474 M7C (X7R)	(U2J) (W2J) (W2J) (W2J) (W2J)
Temperature Characteristics			COG char.: lease refer				U)					
Nominal Capacitance	Under 10	00pF: Actu	al value 1	00pF and	over: Mark	ed with 3 f	igures					
Capacitance Tolerance		vith code omitted (P	lease refer	to the ma	rking exam	nple.)						
Rated Voltage			DC25V: 2, lease refer				: 4, DC500	V: 9, DC63	0V: 7, DC:	lkV: A)		
Manufacturer's Identification	Marked v A part is		lease refer	to the ma	rking exam	nple.)						

■ Temperature Compensating Type, COG/U2J Characteristics

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RDE5C1H1R0C0 H03	COG (EIA)	50Vdc	1.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H1R0C0 H03	COG (EIA)	50Vdc	1.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H2R0C0 H03	COG (EIA)	50Vdc	2.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H2R0C0 H03	COG (EIA)	50Vdc	2.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H3R0C0 H03	COG (EIA)	50Vdc	3.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H3R0C0 H03	COG (EIA)	50Vdc	3.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H4R0C0 H03	COG (EIA)	50Vdc	4.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H4R0C0 H03	COG (EIA)	50Vdc	4.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H5R0C0 H03	COG (EIA)	50Vdc	5.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H5R0C0□□H03□	COG (EIA)	50Vdc	5.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1

Part Number Char Notes Capacitance LxW T F Code	Continued from the preceding page. 🕽										
RDESC1H6RODD HOST COC (EN) SOVER 6.0PF-0.5PF 4.0-3.5 2.5 5.0 K1	Part Number			Capacitance	LxW	T	F F	Code	Lead Style Code Taping		
RDESC1H780D0H03	RDE5C1H6R0D0□□H03□	COG (EIA)	50Vdc	6.0pF±0.5pF	, ,	• •	, ,		M1		
RDESCIH7RODOC HODID	RDE5C1H6R0D0□□H03□	COG (EIA)	50Vdc	6.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1		
RDESCH1780DDC -1003 COG (EIA) SOVIde R.OpF10.SpF S.O.3.5 2.5 2.5 P1	RDE5C1H7R0D0□□H03□	· , ,	50Vdc	<u> </u>	4.0×3.5	2.5	5.0	K1	M1		
RDESCH18R0DO HOD COC (EIA) SOVIDE 8.0FE-0.5pF 40-3.5 2.5 5.0 K1		` '		· · ·					S1		
RDESCHIBRODO H03 COG (EIA) SOVIde S.OPF-10.5pF S.O-3.5 2.5 2.5 P1		` '							M1		
RDESCH1980000 H03 COG (EIA) SOVICE 9.0pF=0.5pF 4.0-3.5 2.5 5.0 K1		` '							S1		
RDESCH19000000000000000000000000000000000000		· ,							M1		
RDESCH100J0 H09 COG (EIA) SOVIde 10pF15% 4.0-3.5 2.5 5.0 K1		· , ,		· · · · · ·					S1		
RDESCH120J0		` ,		· · ·					M1		
RDESCH120J0 H03 COG (EIA) SOVICE 12PF±5% 4.0-3.5 2.5 5.0 K1		` '		· '					S1		
RDESCH120J0 H03		` '							M1		
RDESCIH150J0 H03 COG (EIA) SOVICE 15pF±5% 4.0+3.5 2.5 5.0 K1		` '		· ·					S1		
RDESCIH150J0 H03		` '		· ·					M1		
RDESCH180J0		` '				-			S1		
RDESC1H180J0		` '							M1		
RDESC1H220J0		· , ,							S1		
RDESC1H220J0 H03		· ,									
RDESC1H270J0 H03		· ,							M1		
RDESC1H370J0 H03		· ,							S1		
RDESC1H330J0		· ,							M1		
RDESC1H330J0		· ,		· ·					S1		
RDESC1H390J0 H03		_ ` /							M1		
RDESC1H390J0									S1		
RDESC1H470J0		· ,							M1		
RDESC1H470J0		. ,							S1		
RDESC1H560J0		`							M1		
RDESC1H560J0		` '							S1		
RDESC1H680J0□H03□ COG (EIA) SOVIde 68pF±5% 4.0×3.5 2.5 5.0 K1		· ,							M1		
RDESC1H680J0□H03□ COG (EIA)		` '							S1		
RDE5C1H820J0□□H03□ COG (EIA) 50Vdc 82pF±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H820J0□□H03□ COG (EIA) 50Vdc 82pF±5% 5.0*3.5 2.5 2.5 P1 RDE5C1H101J0□□H03□ COG (EIA) 50Vdc 100pF±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H12J0□□H03□ COG (EIA) 50Vdc 120pF±5% 5.0*3.5 2.5 2.5 P1 RDE5C1H12J0□□H03□ COG (EIA) 50Vdc 120pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H12J0□□H03□ COG (EIA) 50Vdc 120pF±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H15J0□□H03□ COG (EIA) 50Vdc 150pF±5% 5.0*3.5 2.5 2.5 P1 RDE5C1H18J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H22J0□□H03□ COG (EIA) 50Vdc 220pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H27J0□□H03□ COG (EIA) 50Vdc<	RDE5C1H680J0 H03	· , ,							M1		
RDE5C1H820J0□H03□ COG (EIA) 50Vdc 82pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H10J0□H03□ COG (EIA) 50Vdc 100pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H12J0□H03□ COG (EIA) 50Vdc 100pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H12J0□H03□ COG (EIA) 50Vdc 120pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H15J0□H03□ COG (EIA) 50Vdc 150pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H15J0□H03□ COG (EIA) 50Vdc 150pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H18J0□H03□ COG (EIA) 50Vdc 150pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H22J0□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H221J0□H03□ COG (EIA) 50Vdc 220pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H221J0□H03□ COG (EIA) 50Vdc		· ,							S1		
RDE5C1H101J0□□H03□ COG (EIA) SOVdc 100PF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H101J0□□H03□ COG (EIA) SOVdc 100PF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H121J0□□H03□ COG (EIA) SOVdc 120PF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H121J0□□H03□ COG (EIA) SOVdc 120PF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H151J0□□H03□ COG (EIA) SOVdc 150PF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H151J0□□H03□ COG (EIA) SOVdc 150PF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H181J0□□H03□ COG (EIA) SOVdc 180PF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H221J0□□H03□ COG (EIA) SOVdc 220PF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) SOVdc 270PF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0□□H03□ COG (EIA) SOVdc 270PF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0	RDE5C1H820J0 H03	· ,							M1		
RDE5C1H101J0□H03□ COG (EIA) SOVdc 100pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H121J0□H03□ COG (EIA) SOVdc 120pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H121J0□H03□ COG (EIA) SOVdc 120pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H151J0□H03□ COG (EIA) SOVdc 150pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H151J0□H03□ COG (EIA) SOVdc 150pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H181J0□H03□ COG (EIA) SOVdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H221J0□H03□ COG (EIA) SOVdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) SOVdc 220pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) SOVdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG (EIA) SOVdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG	RDE5C1H820J0 H03	COG (EIA)	50Vdc	82pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H121J0□□H03□ COG (EIA) 50Vdc 120pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H121J0□□H03□ COG (EIA) 50Vdc 120pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H151J0□□H03□ COG (EIA) 50Vdc 150pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H151J0□□H03□ COG (EIA) 50Vdc 150pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H221J0□□H03□ COG (EIA) 50Vdc 220pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) 50Vdc 330pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0□		` '		100pF±5%					M1		
RDE5C1H121J0□□H03□ COG (EIA) 50Vdc 120pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H151J0□□H03□ COG (EIA) 50Vdc 150pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H221J0□□H03□ COG (EIA) 50Vdc 220pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H391J0□□H03□ COG (EIA) <		` ′		100pF±5%					S1		
RDE5C1H151J0□H03□ COG (EIA) 50Vdc 150Pf±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H151J0□H03□ COG (EIA) 50Vdc 150Pf±5% 5.0*3.5 2.5 2.5 P1 RDE5C1H181J0□H03□ COG (EIA) 50Vdc 180Pf±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H181J0□H03□ COG (EIA) 50Vdc 180Pf±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H221J0□H03□ COG (EIA) 50Vdc 220Pf±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) 50Vdc 220Pf±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) 50Vdc 270Pf±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 330Pf±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc 390Pf±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc </td <td></td> <td>` '</td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td>M1</td>		` '		· ·					M1		
RDE5C1H151J0□H03□ COG (EIA) 50Vdc 150pF±5% 5.0*3.5 2.5 2.5 P1 RDE5C1H181J0□H03□ COG (EIA) 50Vdc 180pF±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H181J0□H03□ COG (EIA) 50Vdc 180pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H221J0□H03□ COG (EIA) 50Vdc 220pF±5% 4.0*3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) 50Vdc 220pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) 50Vdc 270pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 270pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 330pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc 390pF±5% 5.0*3.5 2.5 5.0 K1 RDE5C1H471J0□H03□ COG (EIA) 50Vdc </td <td></td> <td>` ′</td> <td></td> <td>120pF±5%</td> <td></td> <td></td> <td></td> <td></td> <td>S1</td>		` ′		120pF±5%					S1		
RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H181J0□□H03□ COG (EIA) 50Vdc 180pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H221J0□□H03□ COG (EIA) 50Vdc 220pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H271J0□□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H331J0□□H03□ COG (EIA) 50Vdc 330pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H391J0□□H03□ COG (EIA) 50Vdc 390pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0□□H03□ COG (EIA) 50Vdc 390pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0□□H03□ COG (EIA) <		` '		· · · · · · · · · · · · · · · · · · ·	4.0×3.5				M1		
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RDE5C1H221J0 H03 COG (EIA) COG (EIA) 50Vdc 220pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H221J0 H03 COG (EIA) COG (EIA) 50Vdc 220pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H271J0 H03 COG (EIA) COG (EIA) 50Vdc 270pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H331J0 H03 COG (EIA) COG (EIA) 50Vdc 330pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H331J0 H03 COG (EIA) 50Vdc 330pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H391J0 H03 COG (EIA) 50Vdc 390pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H391J0 H03 COG (EIA) 50Vdc 390pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0 H03 COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H561J0 H03 COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H681J0 H03 COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 <td></td> <td>` ′</td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td>M1</td>		` ′		· ·					M1		
RDE5C1H221J0□H03□COG (EIA) 50Vdc 220pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H271J0□H03□COG (EIA) 50Vdc 270pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□H03□COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H331J0□H03□COG (EIA) 50Vdc 330pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H331J0□H03□COG (EIA) 50Vdc 330pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H391J0□H03□COG (EIA) 50Vdc 390pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H391J0□H03□COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0□H03□COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H561J0□H03□COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H681J0□H03□COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H681J0□H03□COG (EIA)		` '		· ·					S1		
RDE5C1H271J0□H03□ COG (EIA) 50Vdc 270pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H271J0□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 330pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 330pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc 390pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H561J0□H03□ COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H681J0□H03□ COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H681J0□H03□ COG (EIA) 50Vdc </td <td></td> <td>` ,</td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td>M1</td>		` ,		· ·					M1		
RDE5C1H271J0□H03□ COG (EIA) 50Vdc 270pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 330pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H331J0□H03□ COG (EIA) 50Vdc 330pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc 390pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H391J0□H03□ COG (EIA) 50Vdc 390pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H471J0□H03□ COG (EIA) 50Vdc 470pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H471J0□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H561J0□H03□ COG (EIA) 50Vdc 560pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H681J0□H03□ COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H821J0□H03□ COG (EIA) 50Vdc <td></td> <td>` ′</td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td>S1</td>		` ′		· ·					S1		
RDE5C1H331J0□□H03□ COG (EIA) 50Vdc 330pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H331J0□□H03□ COG (EIA) 50Vdc 330pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H391J0□□H03□ COG (EIA) 50Vdc 390pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H391J0□□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0□□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H471J0□□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) <		` ′		· ·					M1		
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RDE5C1H471J0□□H03□ COG (EIA) 50Vdc 470pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H471J0□□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H391J0 H03	COG (EIA)		390pF±5%				K1	M1		
RDE5C1H471J0□□H03□ COG (EIA) 50Vdc 470pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H391J0 H03	COG (EIA)		390pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H471J0 H03	COG (EIA)	50Vdc	470pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H561J0□□H03□ COG (EIA) 50Vdc 560pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H471J0 H03	` ′	50Vdc	470pF±5%	5.0×3.5	_	2.5		S1		
RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H561J0□□H03□	COG (EIA)	50Vdc	560pF±5%	4.0×3.5	_	5.0	K1	M1		
RDE5C1H681J0□□H03□ COG (EIA) 50Vdc 680pF±5% 5.0×3.5 2.5 2.5 P1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H561J0□□H03□	COG (EIA)	50Vdc	560pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 4.0×3.5 2.5 5.0 K1 RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H681J0□□H03□	COG (EIA)	50Vdc	680pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H821J0□□H03□ COG (EIA) 50Vdc 820pF±5% 5.0×3.5 2.5 2.5 P1	RDE5C1H681J0 H03	COG (EIA)	50Vdc	680pF±5%	5.0×3.5	2.5	2.5	P1	S1		
	RDE5C1H821J0 H03	COG (EIA)	50Vdc	820pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H102J0 □□ H03 □ COG (EIA) 50Vdc 1000pF±5% 4.0×3.5 2.5 5.0 K1	RDE5C1H821J0 H03	COG (EIA)	50Vdc	820pF±5%	5.0×3.5	2.5	2.5	P1	S1		
	RDE5C1H102J0 H03	COG (EIA)	50Vdc	1000pF±5%	4.0×3.5	2.5	5.0	K1	M1		

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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping		
RDE5C1H102J0□□H03□	COG (EIA)	50Vdc	1000pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H122J0□□H03□	COG (EIA)	50Vdc	1200pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H122J0□□H03□	COG (EIA)	50Vdc	1200pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H152J0 H03	COG (EIA)	50Vdc	1500pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H152J0 H03	COG (EIA)	50Vdc	1500pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H182J0 H03	COG (EIA)	50Vdc	1800pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H182J0 H03	COG (EIA)	50Vdc	1800pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H222J0□□H03□	COG (EIA)	50Vdc	2200pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H222J0 H03	COG (EIA)	50Vdc	2200pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H272J0□□H03□	COG (EIA)	50Vdc	2700pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H272J0 H03	COG (EIA)	50Vdc	2700pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H332J0□□H03□	COG (EIA)	50Vdc	3300pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H332J0 H03	COG (EIA)	50Vdc	3300pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H392J0 H03	COG (EIA)	50Vdc	3900pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C1H392J0□□H03□	COG (EIA)	50Vdc	3900pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C1H472J1□□H03□	COG (EIA)	50Vdc	4700pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H472J1□□H03□	COG (EIA)	50Vdc	4700pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H562J1□□H03□	COG (EIA)	50Vdc	5600pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H562J1 H03	COG (EIA)	50Vdc	5600pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H682J1 H03	COG (EIA)	50Vdc	6800pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H682J1□□H03□	COG (EIA)	50Vdc	6800pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H822J1 H03	COG (EIA)	50Vdc	8200pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H822J1 H03	COG (EIA)	50Vdc	8200pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H103J1 H03	COG (EIA)	50Vdc	10000pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H103J1 H03	COG (EIA)	50Vdc	10000pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H123J1 H03	COG (EIA)	50Vdc	12000pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H123J1 H03	COG (EIA)	50Vdc	12000pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H153J1 H03	COG (EIA)	50Vdc	15000pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H153J1 H03	COG (EIA)	50Vdc	15000pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C1H183J1 H03	COG (EIA)	50Vdc	18000pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C1H183J1 H03	COG (EIA)	50Vdc 50Vdc	18000pF±5% 22000pF±5%	5.0×3.5 4.5×3.5	3.15	2.5 5.0	P1	S1 M1		
RDE5C1H223J1 H03 RDE5C1H223J1 H03	COG (EIA)	50Vdc	22000pF±5% 22000pF±5%	4.5×3.5 5.0×3.5	3.15	2.5	K1 P1	S1		
RDE5C1H273J2 H03	COG (EIA)	50Vdc	27000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H273J2 H03	COG (EIA)	50Vdc	27000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H333J2 H03	COG (EIA)	50Vdc	33000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H333J2 H03	COG (EIA)	50Vdc	33000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H393J2□□H03□	COG (EIA)	50Vdc	39000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H393J2□□H03□	COG (EIA)	50Vdc	39000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H473J2	COG (EIA)	50Vdc	47000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H473J2□□H03□	COG (EIA)	50Vdc	47000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H563J2□□H03□	COG (EIA)	50Vdc	56000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H563J2 H03	COG (EIA)	50Vdc	56000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H683J2□□H03□	COG (EIA)	50Vdc	68000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H683J2 H03	COG (EIA)	50Vdc	68000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H823J2 H03	COG (EIA)	50Vdc	82000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H823J2□□H03□	COG (EIA)	50Vdc	82000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C1H104J2□□H03□	COG (EIA)	50Vdc	0.1µF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C1H104J2□□H03□	COG (EIA)	50Vdc	0.1µF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A1R0C0□□H03□	COG (EIA)	100Vdc	1.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A1R0C0□□H03□	COG (EIA)	100Vdc	1.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A2R0C0□□H03□	COG (EIA)	100Vdc	2.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A2R0C0□□H03□	COG (EIA)	100Vdc	2.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A3R0C0 H03	COG (EIA)	100Vdc	3.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A3R0C0 H03	COG (EIA)	100Vdc	3.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A4R0C0 H03	COG (EIA)	100Vdc	4.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A4R0C0 H03	COG (EIA)	100Vdc	4.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1		

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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping		
RDE5C2A5R0C0□□H03□	COG (EIA)	100Vdc	5.0pF±0.25pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A5R0C0□□H03□	COG (EIA)	100Vdc	5.0pF±0.25pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A6R0D0□□H03□	COG (EIA)	100Vdc	6.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A6R0D0□□H03□	COG (EIA)	100Vdc	6.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A7R0D0□□H03□	COG (EIA)	100Vdc	7.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A7R0D0 H03	COG (EIA)	100Vdc	7.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A8R0D0 H03	COG (EIA)	100Vdc	8.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A8R0D0 H03	COG (EIA)	100Vdc	8.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A9R0D0□□H03□	COG (EIA)	100Vdc	9.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A9R0D0□□H03□	COG (EIA)	100Vdc	9.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A100J0 H03	COG (EIA)	100Vdc	10pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A100J0 H03	COG (EIA)	100Vdc	10pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A120J0 H03	COG (EIA)	100Vdc	12pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A120J0□□H03□	COG (EIA)	100Vdc	12pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A150J0 H03	COG (EIA)	100Vdc	15pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A150J0 H03	COG (EIA)	100Vdc	15pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A180J0 H03	COG (EIA)	100Vdc	18pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A180J0□□H03□	COG (EIA)	100Vdc	18pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A220J0 H03	COG (EIA)	100Vdc	22pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A220J0 H03	COG (EIA)	100Vdc	22pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A270J0 H03	COG (EIA)	100Vdc	27pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A270J0 H03	COG (EIA)	100Vdc	27pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A330J0 H03	COG (EIA)	100Vdc	33pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A330J0 H03	COG (EIA)	100Vdc	33pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A390J0 H03	COG (EIA)	100Vdc	39pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A390J0□□H03□	COG (EIA)	100Vdc	39pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A470J0 H03	COG (EIA)	100Vdc	47pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A470J0 H03	COG (EIA)	100Vdc	47pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A560J0□□H03□	COG (EIA)	100Vdc	56pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A560J0□□H03□	COG (EIA)	100Vdc	56pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A680J0□□H03□	COG (EIA)	100Vdc	68pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A680J0□□H03□	COG (EIA)	100Vdc	68pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A820J0 H03	COG (EIA)	100Vdc	82pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A820J0 H03	COG (EIA)	100Vdc	82pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A101J0 H03	COG (EIA)	100Vdc	100pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A101J0 H03	COG (EIA)	100Vdc	100pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A121J0 H03	COG (EIA)	100Vdc	120pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A121J0 H03	COG (EIA)	100Vdc	120pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A151J0 H03	COG (EIA)	100Vdc	150pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A151J0 H03	COG (EIA)	100Vdc	150pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A181J0 H03	COG (EIA)	100Vdc	180pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A181J0 H03	COG (EIA)	100Vdc	180pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A221J0□□H03□	COG (EIA)	100Vdc	220pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A221J0□□H03□	COG (EIA)	100Vdc	220pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A271J0□□H03□	COG (EIA)	100Vdc	270pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A271J0□□H03□	COG (EIA)	100Vdc	270pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A331J0 H03	COG (EIA)	100Vdc	330pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A331J0 H03	COG (EIA)	100Vdc	330pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A391J0□□H03□	COG (EIA)	100Vdc	390pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A391J0 H03	COG (EIA)	100Vdc	390pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A471J0 H03	COG (EIA)	100Vdc	470pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A471J0 H03	COG (EIA)	100Vdc	470pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A561J0□□H03□	COG (EIA)	100Vdc	560pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A561J0□□H03□	COG (EIA)	100Vdc	560pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A681J0□□H03□	COG (EIA)	100Vdc	680pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A681J0□□H03□	COG (EIA)	100Vdc	680pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A821J0 H03	COG (EIA)	100Vdc	820pF±5%	4.0×3.5	2.5	5.0	K1	M1		

Continued from the preceding page.										
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping		
RDE5C2A821J0 H03	COG (EIA)	100Vdc	820pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A102J0□□H03□	COG (EIA)	100Vdc	1000pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A102J0□□H03□	COG (EIA)	100Vdc	1000pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A122J0□□H03□	COG (EIA)	100Vdc	1200pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A122J0□□H03□	COG (EIA)	100Vdc	1200pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A152J0 H03	COG (EIA)	100Vdc	1500pF±5%	4.0×3.5	2.5	5.0	K1	M1		
RDE5C2A152J0 H03	COG (EIA)	100Vdc	1500pF±5%	5.0×3.5	2.5	2.5	P1	S1		
RDE5C2A182J1 H03	COG (EIA)	100Vdc	1800pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C2A182J1 H03	COG (EIA)	100Vdc	1800pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C2A222J1 H03	COG (EIA)	100Vdc	2200pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C2A222J1 H03	COG (EIA)	100Vdc	2200pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C2A272J1 H03	COG (EIA)	100Vdc	2700pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C2A272J1 H03	COG (EIA)	100Vdc	2700pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C2A332J1 H03	COG (EIA)	100Vdc	3300pF±5%	4.5×3.5	3.15	5.0	K1	M1		
RDE5C2A332J1 H03	COG (EIA)	100Vdc	3300pF±5%	5.0×3.5	3.15	2.5	P1	S1		
RDE5C2A392J2 H03	COG (EIA)	100Vdc	3900pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A392J2 H03	COG (EIA)	100Vdc	3900pF±5%	5.5×4.0 5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A472J2 H03	COG (EIA)	100Vdc	4700pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A472J2 H03	COG (EIA)	100Vdc	4700pF±5% 4700pF±5%	5.5×4.0 5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A562J2 H03	COG (EIA)	100Vdc	5600pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A562J2 H03	COG (EIA)	100Vdc	5600pF±5%	5.5×4.0 5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A682J2 H03	COG (EIA)	100Vdc	6800pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A682J2 H03	COG (EIA)	100Vdc	6800pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A822J2 H03	COG (EIA)	100Vdc	8200pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A822J2 H03	COG (EIA)	100Vdc	8200pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A103J2 H03	COG (EIA)	100Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A103J2 H03	COG (EIA)	100Vdc	10000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A123J2 H03	COG (EIA)	100Vdc	12000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A123J2 H03	COG (EIA)	100Vdc	12000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A153J2 H03	COG (EIA)	100Vdc	15000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A153J2 H03	COG (EIA)	100Vdc	15000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A183J2 H03	COG (EIA)	100Vdc	18000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A183J2 H03	COG (EIA)	100Vdc	18000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2A223J2 H03	COG (EIA)	100Vdc	22000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2A223J2 H03	COG (EIA)	100Vdc	22000pF±5%	5.5×4.0	3.15	2.5	P1	S1		
RDE5C2E100J2 H03	COG (EIA)	250Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E120J2 H03	COG (EIA)	250Vdc	12pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E150J2 H03	COG (EIA)	250Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E180J2 H03	COG (EIA)	250Vdc	18pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E220J2 H03	COG (EIA)	250Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E270J2 H03	COG (EIA)	250Vdc	27pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E330J2 H03	COG (EIA)	250Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E390J2 H03	COG (EIA)	250Vdc	39pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E470J2 H03	COG (EIA)	250Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E560J2 H03	COG (EIA)	250Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E680J2 H03	COG (EIA)	250Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E820J2 H03	COG (EIA)	250Vdc	82pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E101J2 H03	COG (EIA)	250Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E121J2 H03	COG (EIA)	250Vdc	120pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E151J2 H03	COG (EIA)	250Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E181J2 H03	COG (EIA)	250Vdc	180pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E221J2 H03	COG (EIA)	250Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E271J2 H03	COG (EIA)	250Vdc	270pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E331J2 H03	COG (EIA)	250Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E391J2	COG (EIA)	250Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E471J2	COG (EIA)	250Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E561J2 H03	COG (EIA)	250Vdc	560pF±5%	5.5×4.0	3.15	5.0	K1	M1		
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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping		
RDE5C2E681J2 H03	COG (EIA)	250Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E821J2 H03	COG (EIA)	250Vdc	820pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E102J2 H03	COG (EIA)	250Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E122J2□□H03□	COG (EIA)	250Vdc	1200pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E152J2 H03	COG (EIA)	250Vdc	1500pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E182J2 H03	COG (EIA)	250Vdc	1800pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E222J2 H03	COG (EIA)	250Vdc	2200pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E272J2 H03	COG (EIA)	250Vdc	2700pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E332J2 H03	COG (EIA)	250Vdc	3300pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E392J2 H03	COG (EIA)	250Vdc	3900pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E472J2 H03	COG (EIA)	250Vdc	4700pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E562J2 H03	COG (EIA)	250Vdc	5600pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E682J2 H03	COG (EIA)	250Vdc	6800pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E822J2 H03	COG (EIA)	250Vdc	8200pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E103J2 H03	COG (EIA)	250Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E123J2 H03	COG (EIA)	250Vdc 250Vdc	12000pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2E123J2 H03	COG (EIA)	250Vdc	15000pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J100J2 H03	COG (EIA)	630Vdc	10pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J12OJ2 HO3	COG (EIA)	630Vdc	10pF±5% 12pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J120J2 H03	COG (EIA)	630Vdc	12pF±5% 15pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
	` ,	630Vdc		5.5×4.0	3.15	5.0		M1		
RDE5C2J180J2 H03	COG (EIA)	630Vdc	18pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M1		
RDE5C2J220J2 H03	COG (EIA)		22pF±5%							
RDE5C2J270J2 H03	COG (EIA)	630Vdc	27pF±5%	5.5×4.0 5.5×4.0	3.15	5.0 5.0	K1	M1 M1		
RDE5C2J330J2 H03 RDE5C2J390J2 H03	COG (EIA)	630Vdc 630Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1		
	COG (EIA)	630Vdc	39pF±5%		3.15	5.0	K1			
RDE5C2J470J2 H03 RDE5C2J560J2 H03	COG (EIA)	630Vdc	47pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1 M1		
	COG (EIA)	630Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J680J2 H03 RDE5C2J820J2 H03	COG (EIA)	630Vdc	68pF±5% 82pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M1		
RDE5C2J101J2 H03	COG (EIA)	630Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J121J2 H03	COG (EIA)	630Vdc	120pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J151J2 H03	COG (EIA)	630Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J181J2 H03	COG (EIA)	630Vdc	180pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J221J2 H03	COG (EIA)	630Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J271J2 H03	COG (EIA)	630Vdc	270pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J331J2 H03	COG (EIA)	630Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J391J2	COG (EIA)	630Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J471J2 H03	COG (EIA)	630Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J561J2 H03	COG (EIA)	630Vdc	560pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J681J2 H03	COG (EIA)	630Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J821J2 H03	COG (EIA)	630Vdc		5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J102J2 H03	COG (EIA)	630Vdc	820pF±5% 1000pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J122J2 H03	COG (EIA)	630Vdc	•	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J152J2 H03	COG (EIA)	630Vdc	1200pF±5% 1500pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J182J2 H03	COG (EIA)	630Vdc	1800pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C2J222J2 H03	COG (EIA)	630Vdc	2200pF±5%	5.5×4.0	3.15	5.0	K1	M1		
	COG (EIA)	630Vdc	2700pF±5%	5.5×4.0	3.15	5.0	K1			
RDE5C2J272J2 H03 RDE5C2J332J2 H03	, ,	630Vdc		5.5×4.0 5.5×4.0	3.15	5.0		M1 M1		
RDE5C3A100J2 H03	COG (EIA)	1000Vdc	3300pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M1		
RDE5C3A100J2	COG (EIA)	1000Vdc	10pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDE5C3A120J2	COG (EIA)	1000Vdc	12pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M1		
	` ′		15pF±5%							
RDE5C3A180J2 H03	COG (EIA)	1000Vdc	18pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C3A220J2 H03	COG (EIA)	1000Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C3A270J2 H03	COG (EIA)	1000Vdc	27pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C3A330J2 H03	COG (EIA)	1000Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C3A390J2 H03	COG (EIA)	1000Vdc	39pF±5%	5.5×4.0	3.15	5.0	K1	M1		
RDE5C3A470J2 H03	COG (EIA)	1000Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1		

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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RDE5C3A560J2□□H03□	COG (EIA)	1000Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A680J2□□H03□	COG (EIA)	1000Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A820J2 H03	COG (EIA)	1000Vdc	82pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A101J2 H03	COG (EIA)	1000Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A121J2 H03	COG (EIA)	1000Vdc	120pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A151J2 H03	COG (EIA)	1000Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A181J2 H03	COG (EIA)	1000Vdc	180pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A221J2 H03	COG (EIA)	1000Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A271J2 H03	COG (EIA)	1000Vdc	270pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A331J2 H03	COG (EIA)	1000Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A391J2□□H03□	COG (EIA)	1000Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A471J2 H03	COG (EIA)	1000Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A561J2 H03	COG (EIA)	1000Vdc	560pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A681J2□□H03□	COG (EIA)	1000Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A821J2 H03	COG (EIA)	1000Vdc	820pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C3A102J2 H03	COG (EIA)	1000Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2E101J1 H03	U2J (EIA)	250Vdc	100pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E151J1 H03	U2J (EIA)	250Vdc	150pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E221J1 H03	U2J (EIA)	250Vdc	220pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E331J1□□H03□	U2J (EIA)	250Vdc	330pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E471J1 H03	U2J (EIA)	250Vdc	470pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E681J1□□H03□	U2J (EIA)	250Vdc	680pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E102J1 H03	U2J (EIA)	250Vdc	1000pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E152J1□□H03□	U2J (EIA)	250Vdc	1500pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E222J1□□H03□	U2J (EIA)	250Vdc	2200pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E332J1 H03	U2J (EIA)	250Vdc	3300pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E472J1 H03	U2J (EIA)	250Vdc	4700pF±5%	4.5×3.5	3.15	5.0	K1	M1
RDE7U2E682J2□□H03□	U2J (EIA)	250Vdc	6800pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2E103J2 H03	U2J (EIA)	250Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2E153J2 H03	U2J (EIA)	250Vdc	15000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2E223J2□□H03□	U2J (EIA)	250Vdc	22000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2E333J3 H03	U2J (EIA)	250Vdc	33000pF±5%	5.5×5.0	4.0	5.0	K1	M1
RDE7U2E473J3 H03	U2J (EIA)	250Vdc	47000pF±5%	5.5×5.0	4.0	5.0	K1	M1
RDE7U2J100J2 H03	U2J (EIA)	630Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J150J2 H03	U2J (EIA)	630Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J220J2□□H03□	U2J (EIA)	630Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J330J2 H03	U2J (EIA)	630Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J470J2 H03	U2J (EIA)	630Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J680J2 H03	U2J (EIA)	630Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J101J2 H03	U2J (EIA)	630Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J151J2 H03	U2J (EIA)	630Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J221J2 H03	U2J (EIA)	630Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J331J2 H03	U2J (EIA)	630Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J471J2 H03	U2J (EIA)	630Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J681J2	U2J (EIA)	630Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J102J2 H03	U2J (EIA)	630Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J152J2 H03	U2J (EIA)	630Vdc	1500pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J222J2 H03	U2J (EIA)	630Vdc	2200pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J332J2 H03 RDE7U2J472J2 H03	U2J (EIA)	630Vdc 630Vdc	3300pF±5%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1 K1	M1 M1
	U2J (EIA)		4700pF±5%		4.0			
RDE7U2J682J3	U2J (EIA) U2J (EIA)	630Vdc 630Vdc	6800pF±5% 10000pF±5%	5.5×5.0 5.5×5.0	4.0	5.0	K1 K1	M1 M1
RDE7U2J153J4 H03	U2J (EIA)	630Vdc	15000pF±5%	7.5×5.5	4.0	5.0	K1	M1
RDE7U2J223J4 H03	U2J (EIA)	630Vdc	22000pF±5%	7.5×5.5 7.5×5.5	4.0	5.0	K1	M1
RDE7U2J333J5 H03	U2J (EIA)	630Vdc	33000pF±5%	7.5×8.0	4.0	5.0	B1	E1
RDE7U2J473J5	U2J (EIA)	630Vdc	47000pF±5%	7.5×8.0	4.0	5.0	B1	E1
RDE7U2J943JU H03	U2J (EIA)	630Vdc	94000pF±5%	7.7×13.0	4.0	5.0	B1	E1
	020 (217)	130140	J .000p. 2070					

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RDE7U3A100J2 H03	U2J (EIA)	1000Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A150J2 H03	U2J (EIA)	1000Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A220J2 H03	U2J (EIA)	1000Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A330J2□□H03□	U2J (EIA)	1000Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A470J2□□H03□	U2J (EIA)	1000Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A680J2 H03	U2J (EIA)	1000Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A101J2 H03	U2J (EIA)	1000Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A151J2□□H03□	U2J (EIA)	1000Vdc	150pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A221J2□□H03□	U2J (EIA)	1000Vdc	220pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A331J2□□H03□	U2J (EIA)	1000Vdc	330pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A471J2□□H03□	U2J (EIA)	1000Vdc	470pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A681J2□□H03□	U2J (EIA)	1000Vdc	680pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A102J2□□H03□	U2J (EIA)	1000Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U3A152J3□□H03□	U2J (EIA)	1000Vdc	1500pF±5%	5.5×5.0	4.0	5.0	K1	M1
RDE7U3A222J3□□H03□	U2J (EIA)	1000Vdc	2200pF±5%	5.5×5.0	4.0	5.0	K1	M1
RDE7U3A332J4□□H03□	U2J (EIA)	1000Vdc	3300pF±5%	7.5×5.5	4.0	5.0	K1	M1
RDE7U3A472J4□□H03□	U2J (EIA)	1000Vdc	4700pF±5%	7.5×5.5	4.0	5.0	K1	M1
RDE7U3A682J5□□H03□	U2J (EIA)	1000Vdc	6800pF±5%	7.5×8.0	4.0	5.0	B1	E1
RDE7U3A103J5 H03	U2J (EIA)	1000Vdc	10000pF±5%	7.5×8.0	4.0	5.0	B1	E1
RDE7U3A203JU H03	U2J (EIA)	1000Vdc	20000pF±5%	7.7×13.0	4.0	5.0	B1	E1

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code.

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RDER71E104K0□□H03□	X7R (EIA)	25Vdc	0.1µF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71E104K0□□H03□	X7R (EIA)	25Vdc	0.1µF±10%	5.0×3.5	2.5	2.5	P1	S1
RDEC71E224K0□□H03□	X7S (EIA)	25Vdc	0.22µF±10%	4.0×3.5	2.5	5.0	K1	M1
RDEC71E224K0□□H03□	X7S (EIA)	25Vdc	0.22µF±10%	5.0×3.5	2.5	2.5	P1	S1
RDEC71E474K0 H03	X7S (EIA)	25Vdc	0.47µF±10%	4.0×3.5	2.5	5.0	K1	M1
RDEC71E474K0□□H03□	X7S (EIA)	25Vdc	0.47µF±10%	5.0×3.5	2.5	2.5	P1	S1
RDEC71E105K0 H03	X7S (EIA)	25Vdc	1.0µF±10%	4.0×3.5	2.5	5.0	K1	M1
RDEC71E105K0 H03	X7S (EIA)	25Vdc	1.0µF±10%	5.0×3.5	2.5	2.5	P1	S1
RDEC71E225K1□□H03□	X7S (EIA)	25Vdc	2.2µF±10%	4.5×3.5	3.15	5.0	K1	M1
RDEC71E225K1□□H03□	X7S (EIA)	25Vdc	2.2µF±10%	5.0×3.5	3.15	2.5	P1	S1
RDEC71E475K2□□H03□	X7S (EIA)	25Vdc	4.7µF±10%	5.5×4.0	3.15	2.5	P1	S1
RDEC71E475K2 H03	X7S (EIA)	25Vdc	4.7µF±10%	5.5×4.0	3.15	5.0	K1	M1
RDEC71E106K2 H03	X7S (EIA)	25Vdc	10μF±10%	5.5×4.0	3.15	2.5	P1	S1
RDEC71E106K2□□H03□	X7S (EIA)	25Vdc	10μF±10%	5.5×4.0	3.15	5.0	K1	M1
RDEC71E226K3□□H03□	X7S (EIA)	25Vdc	22µF±10%	5.5×5.0	4.0	2.5	P1	S1
RDEC71E226K3□□H03□	X7S (EIA)	25Vdc	22μF±10%	5.5×5.0	4.0	5.0	K1	M1
RDEC71E476MW H03	X7S (EIA)	25Vdc	47μF±20%	5.5×7.5	4.0	5.0	K1	M1
RDER71H221K0□□H03□	X7R (EIA)	50Vdc	220pF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71H221K0□□H03□	X7R (EIA)	50Vdc	220pF±10%	5.0×3.5	2.5	2.5	P1	S1
RDER71H331K0 H03	X7R (EIA)	50Vdc	330pF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71H331K0□□H03□	X7R (EIA)	50Vdc	330pF±10%	5.0×3.5	2.5	2.5	P1	S1
RDER71H471K0 H03	X7R (EIA)	50Vdc	470pF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71H471K0□□H03□	X7R (EIA)	50Vdc	470pF±10%	5.0×3.5	2.5	2.5	P1	S1
RDER71H681K0 H03	X7R (EIA)	50Vdc	680pF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71H681K0 H03	X7R (EIA)	50Vdc	680pF±10%	5.0×3.5	2.5	2.5	P1	S1
RDER71H102K0□□H03□	X7R (EIA)	50Vdc	1000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71H102K0□□H03□	X7R (EIA)	50Vdc	1000pF±10%	5.0×3.5	2.5	2.5	P1	S1
RDER71H152K0□□H03□	X7R (EIA)	50Vdc	1500pF±10%	4.0×3.5	2.5	5.0	K1	M1
RDER71H152K0□□H03□	X7R (EIA)	50Vdc	1500pF±10%	5.0×3.5	2.5	2.5	P1	S1
RDER71H222K0□□H03□	X7R (EIA)	50Vdc	2200pF±10%	4.0×3.5	2.5	5.0	K1	M1

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack)

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ROERT/HAZZKOTT-1903 X7R (E(A) 50/045 2000pf-10% 50-35 2.5 2.5 P1 S1	Continued from the preceding page.										
ROBERTHASSENCI_HOST_XTR_(EIA) 50Vdc 2000pf=10% 50-85 2.5 2.5 P1 S1 S1 S1 S1 S1 S1 S1	Part Number			Capacitance		Dimension T	Lead Space F				
ROBERT H332KO H03 X7R (EA) SOVIDE 3300P*10% 40-35 2.5 5.0 K1 M1 ROBERT H332KO H03 X7R (EA) SOVIDE 4700P*10% 40-35 2.5 5.0 K1 M1 ROBERT H332KO H03 X7R (EA) SOVIDE 4700P*10% 40-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 4700P*10% 50-35 2.5 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 4700P*10% 50-35 2.5 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 6800P*10% 50-35 2.5 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 6800P*10% 50-35 2.5 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 1800P*10% 50-35 2.5 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 1800P*10% 50-35 2.5 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 1800P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 1800P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 1800P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 1800P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 2000P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 2000P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 2000P*10% 50-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 40-035 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 4000P*10% 40-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 4000P*10% 40-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 4000P*10% 40-35 2.5 5.0 K1 M1 ROBERT H32KO H03 X7R (EA) SOVIDE 50-03 50-35 2.5 2.5 5.0 K1 M1 ROBERT H33KO H03 X7R (EA) SOVIDE 50-03 50-35 2.5 2.5 5.0 K1 M1 ROBERT H33KO H03 X7R (EA) SOVIDE 50-040 50-35 3.15 5.0 K1 M1 ROBERT H33K				2200pE+10%	` ′	` ′	. ,				
RDERT1H328KD LHO3 X7R (EIA) SOVIde A700F±10% 5.0-3.5 2.5 2.5 P1 S1 RDERT1H472KO LHO3 X7R (EIA) SOVIde A700F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H682KO LHO3 X7R (EIA) SOVIde A700F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H682KO LHO3 X7R (EIA) SOVIde A700F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H682KO LHO3 X7R (EIA) SOVIde A700F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H05KO LHO3 X7R (EIA) SOVIde B800F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H05KO LHO3 X7R (EIA) SOVIde B800F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H05KO LHO3 X7R (EIA) SOVIde B800F±10% 4.0-3.5 2.5 5.0 K1 M1 RDERT1H05KO LHO3 X7R (EIA) SOVIde B800F±10% 5.0-3.5 2.5 5.0 K1 M1 RDERT1H05KO LHO3 X7R (EIA) SOVIde		` '		· ·							
ROBERT1H472KO HO3 X7R (EIA) SOVICE 4700PF110% 40-35 2.5 5.0 K1 M1 ROBERT1H472KO HO3 X7R (EIA) SOVICE 6800PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H682KO HO3 X7R (EIA) SOVICE 6800PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H682KO HO3 X7R (EIA) SOVICE 6800PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H682KO HO3 X7R (EIA) SOVICE 6800PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H682KO HO3 X7R (EIA) SOVICE 18000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H682KO HO3 X7R (EIA) SOVICE 18000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H682KO HO3 X7R (EIA) SOVICE 18000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H583KO HO3 X7R (EIA) SOVICE 22000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H383KO HO3 X7R (EIA) SOVICE 22000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H383KO HO3 X7R (EIA) SOVICE 22000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H383KO HO3 X7R (EIA) SOVICE 22000PF110% 50-3.5 2.5 2.5 P1 S1 ROBERT1H473KO HO3 X7R (EIA) SOVICE 22000PF110% 40-3.5 2.5 2.5 P1 S1 ROBERT1H473KO HO3 X7R (EIA) SOVICE 22000PF110% 40-3.5 2.5 2.5 P1 S1 ROBERT1H473KO HO3 X7R (EIA) SOVICE 80000PF110% 40-3.5 2.5 2.5 P1 S1 ROBERT1H473KO HO3 X7R (EIA) SOVICE 80000PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H473KO HO3 X7R (EIA) SOVICE 80000PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H684KO HO3 X7R (EIA) SOVICE 08000PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H684KO HO3 X7R (EIA) SOVICE 0.15PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H364KO HO3 X7R (EIA) SOVICE 0.15PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H364KO HO3 X7R (EIA) SOVICE 0.15PF110% 40-3.5 2.5 5.0 K1 M1 ROBERT1H364KO HO3 X7R (EIA) SOVICE 0.15PF110% 40-3.5 3.15 5.0 K1 M1 ROBERT1H364KO HO3 X7R (EIA) SOVICE 0.15PF110% 50-3.5 3.15		` '		· ·							
RDER71H472KOH032 X7R_(EIA)		` '		· ·							
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RDER71H103KO H09E X7R (EIA) SOVIDE 10000pF±10% 40-3.5 2.5 5.0 K1 M1 RDER71H103KO H09E X7R (EIA) SOVIDE 10000pF±10% 40-3.5 2.5 2.5 P1 S1 RDER71H135KO H09E X7R (EIA) SOVIDE 15000pF±10% 40-3.5 2.5 5.0 K1 M1 RDER71H133KO H09E X7R (EIA) SOVIDE 15000pF±10% 40-3.5 2.5 5.0 K1 M1 RDER71H233KO H09E X7R (EIA) SOVIDE 22000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H233KO H09E X7R (EIA) SOVIDE 22000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H233KO H09E X7R (EIA) SOVIDE 22000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H333KO H09E X7R (EIA) SOVIDE 22000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H333KO H09E X7R (EIA) SOVIDE 32000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H473KO H09E X7R (EIA) SOVIDE 47000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H473KO H09E X7R (EIA) SOVIDE 47000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H463KO H09E X7R (EIA) SOVIDE 68000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H463KO H09E X7R (EIA) SOVIDE 68000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H463KO H09E X7R (EIA) SOVIDE 68000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 68000pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 2.5 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVIDE 615pF±10% 50-3.5 3.15 5.0 K1 M1 RDER71H364K H09E X7R (EIA) SOVID		` '		· ·							
RDER71H103NO H05 X7R (EIA) SOVIDE 15000PF-10% 50-3.5 2.5 2.5 P1 S1		` '		· '							
RDER71H153NO HOS		` ,		· ·							
RDER71H133KOH03_ X7R_GEA_		` '		· ·							
RDER71H223K0		` ,		· ·							
RDER71H223K0		, ,		· ·							
RDER71H333KO H03 X7R (EIA) SOVde 330000F±10% 50-3.5 2.5 5.0 K1 M1 RDER71H333KO H03 X7R (EIA) SOVde 470000F±10% 50-3.5 2.5 2.5 P1 S1 S1 RDER71H333KO H03 X7R (EIA) SOVde 470000F±10% 50-3.5 2.5 2.5 P1 S1 RDER71H473KO H03 X7R (EIA) SOVde 470000F±10% 50-3.5 2.5 2.5 P1 S1 RDER71H63KO H03 X7R (EIA) SOVde 680000F±10% 50-3.5 2.5 2.5 P1 S1 RDER71H63KO H03 X7R (EIA) SOVde 680000F±10% 50-3.5 2.5 2.5 P1 S1 RDER72H163KO H03 X7R (EIA) SOVde 680000F±10% 50-3.5 2.5 2.5 P1 S1 RDER72H163KO H03 X7R (EIA) SOVde O.1F±10% 40-3.5 2.5 2.5 P1 S1 RDER72H154K1 H03 X7R (EIA) SOVde O.1F±10% 40-3.5 2.5 2.5 P1 S1 RDER72H154K1 H03 X7R (EIA) SOVde O.1F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H1524K1 H03 X7R (EIA) SOVde O.1F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H1224K1 H03 X7R (EIA) SOVde O.2F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H1224K1 H03 X7R (EIA) SOVde O.3F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H133K1 H03 X7R (EIA) SOVde O.3F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H133K1 H03 X7R (EIA) SOVde O.3F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H133K1 H03 X7R (EIA) SOVde O.3F±10% 45-3.5 3.15 5.0 K1 M1 RDER72H1474K1 H03 X7R (EIA) SOVde O.3F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H1474K1 H03 X7R (EIA) SOVde O.3F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H1474K1 H03 X7R (EIA) SOVde O.3F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H165K2 H03 X7R (EIA) SOVde O.68F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H165K2 H03 X7R (EIA) SOVde O.68F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H105K2 H03 X7R (EIA) SOVde O.68F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H105K2 H03 X7R (EIA) SOVde O.68F±10% 55-4.0 3.15 5.0 K1 M1 RDER72H105K2 H03 X7R (EIA) SOVde		` ,		· ·							
RDER71H433KO H03 X7R (EIA) 50Vdc 33000pF±10% 5.0×3.5 2.5 2.5 D.1 S.1 RDER71H473KO H03 X7R (EIA) 50Vdc 47000pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER71H473KO H03 X7R (EIA) 50Vdc 47000pF±10% 5.0×3.5 2.5 2.5 D.5 K1 M1 RDER71H43KO H03 X7R (EIA) 50Vdc 68000pF±10% 5.0×3.5 2.5 2.5 D.5 K1 M1 RDER71H683KO H03 X7R (EIA) 50Vdc 68000pF±10% 5.0×3.5 2.5 2.5 D.5 K1 M1 RDER71H04KO H03 X7R (EIA) 50Vdc 68000pF±10% 5.0×3.5 2.5 2.5 D.5 K1 M1 RDER71H104KO H03 X7R (EIA) 50Vdc 0.1µF±10% 40×3.5 2.5 5.0 K1 M1 RDER71H104KO H03 X7R (EIA) 50Vdc 0.1µF±10% 40×3.5 2.5 2.5 D.1 S.1 RDER71H154K1 H03 X7R (EIA) 50Vdc 0.1µF±10% 5.0×3.5 3.15 5.0 K1 M1 RDER71H22K1 H03 X7R (EIA) 50Vdc 0.1µF±10% 5.0×3.5 3.15 5.0 K1 M1 RDER71H22K1 H03 X7R (EIA) 50Vdc 0.2µF±10% 5.0×3.5 3.15 5.0 K1 M1 RDER71H22K1 H03 X7R (EIA) 50Vdc 0.3µF±10% 4.5×3.5 3.15 5.0 K1 M1 RDER71H33K1 H03 X7R (EIA) 50Vdc 0.3µF±10% 4.5×3.5 3.15 2.5 D.1 S.1 RDER71H347K1 H03 X7R (EIA) 50Vdc 0.3µF±10% 4.5×3.5 3.15 5.0 K1 M1 RDER71H474K1 H03 X7R (EIA) 50Vdc 0.3µF±10% 4.5×3.5 3.15 5.0 K1 M1 RDER71H474K1 H03 X7R (EIA) 50Vdc 0.6µF±10% 5.0×3.5 3.15 5.0 K1 M1 RDER71H474K1 H03 X7R (EIA) 50Vdc 0.6µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H476K1 H03 X7R (EIA) 50Vdc 0.6µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H105K2 H03 X7R (EIA) 50Vdc 0.6µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H105K2 H03 X7R (EIA) 50Vdc 0.6µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H105K2 H03 X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H105K2 H03 X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H105K2 H03 X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 5.0 K1		. ,		· ·							
		· , ,	50Vdc	· ·	5.0×3.5	2.5	2.5	P1	S1		
RDER71H683K0	RDER71H473K0□□H03□		50Vdc	47000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H683K0	RDER71H473K0□□H03□	X7R (EIA)	50Vdc	47000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H104K0	RDER71H683K0□□H03□	X7R (EIA)	50Vdc	68000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H104K0	RDER71H683K0□□H03□	X7R (EIA)	50Vdc	68000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H154K1	RDER71H104K0□□H03□	X7R (EIA)	50Vdc	0.1µF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H154K1	RDER71H104K0□□H03□	X7R (EIA)	50Vdc	0.1µF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H224K1	RDER71H154K1□□H03□	X7R (EIA)	50Vdc	0.15µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H224K1	RDER71H154K1□□H03□	X7R (EIA)	50Vdc	0.15µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER71H334K1	RDER71H224K1□□H03□	X7R (EIA)	50Vdc	0.22µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H334K1	RDER71H224K1□□H03□	X7R (EIA)	50Vdc	0.22µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER71H474K1	RDER71H334K1□□H03□	X7R (EIA)	50Vdc	0.33µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H474K1	RDER71H334K1□□H03□	X7R (EIA)	50Vdc	0.33µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER71H684K2□H03□ X7R (EIA) 50Vdc 0.68µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H684K2□H03□ X7R (EIA) 50Vdc 0.68µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDEC71H105K1□H03□ X7S (EIA) 50Vdc 1.0µF±10% 4.5×3.5 3.15 5.0 K1 M1 RDEC71H105K1□H03□ X7S (EIA) 50Vdc 1.0µF±10% 5.0×3.5 3.15 2.5 P1 S1 RDER71H105K2□H03□ X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H105K2□H03□ X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H155K2□H03□ X7R (EIA) 50Vdc 1.5µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H155K2□H03□ X7R (EIA) 50Vdc 1.5µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H255K2□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H255K2□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC721H26MV□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC721H26MV□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC722331K0□H03□ X7S (EIA) 100Vdc 400×5.0 5.0×3.5 2.5 5.0 K1 M1 RDER72A681K0□H0	RDER71H474K1□□H03□	X7R (EIA)	50Vdc	0.47µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H684K2	RDER71H474K1□□H03□	X7R (EIA)	50Vdc		5.0×3.5	3.15	2.5	P1	S1		
RDEC71H105K1□H03□ X75 (EIA) 50Vdc 1.0µF±10% 4.5×3.5 3.15 5.0 K1 M1 RDEC71H105K1□H03□ X76 (EIA) 50Vdc 1.0µF±10% 5.0×3.5 3.15 2.5 P1 S1 RDER71H105K2□H03□ X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H105K2□H03□ X7R (EIA) 50Vdc 1.0µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H105K2□H03□ X7R (EIA) 50Vdc 1.5µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H155K2□H03□ X7R (EIA) 50Vdc 1.5µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H25K2□H03□ X7R (EIA) 50Vdc 1.5µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H25K2□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 10µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 10µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H26MW□H03□ X7S (EIA) 50Vdc 10µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H26MW□H03□ X7R (EIA) 50Vdc 220pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDEC72A221K0□H03□ X7R (EIA) 100Vdc 220pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER72A221K0□H03□ X7R (EIA) 100Vdc 220pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER72A331K0□H03□ X7R (EIA) 100Vdc 470pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER72A681K0□H03□ X7R (EIA) 100Vdc 680pF±10% 4.0×3.5 2.5 5.0 K1 M1 RDER72A681K0□H03□ X7R (EIA) 100Vdc 680pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER72A681K0□H03□ X7R (EIA) 100Vdc 680pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER72A681K0□H03□ X7R (EIA) 100Vdc 1000pF±10% 5.0×3.5 2.5 5.5 5.0 K1 M1 RDER72A681	RDER71H684K2□□H03□		50Vdc	0.68µF±10%	5.5×4.0	3.15	2.5	P1	S1		
RDEC71H105K1□H03□ X7S (EIA) 50Vdc 1.0µF±10% 5.0×3.5 3.15 2.5 P1 S1	RDER71H684K2□□H03□	X7R (EIA)	50Vdc	0.68µF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER71H105K2□H03□		` '		· '							
RDER71H105K2□H03□				-							
RDER71H155K2□H03□ X7R (EIA) 50Vdc 1.5μF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H155K2□H03□ X7R (EIA) 50Vdc 1.5μF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2μF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2μF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3μF±10% 5.5×5.0 4.0 2.5 P1 S1 RDER71H335K3□H03□ X7S (EIA) 50Vdc 3.3μF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7μF±10% 5.5×4.0 3.15 5.0 K1 M1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 4.7μF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 10μF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H226MW□H03□ X7S (EIA)<		, ,		· ·							
RDER71H155K2□H03□ X7R (EIA) 50Vdc 1.5µ±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2µ±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2µ±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µ±10% 5.5×5.0 4.0 2.5 P1 S1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µ±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µ±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µ±10% 5.5×4.0 3.15 5.0 K1 M1 RDEC71H06K3□H03□ X7S (EIA) 50Vdc 10µ±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H026Mw□H03□ X7S (EIA) 50Vdc 22µ±20% 5.5×5.0		, ,		'							
RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDER71H225K2□H03□ X7R (EIA) 50Vdc 2.2µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.3µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDER71H335K3□H03□ X7R (EIA) 50Vdc 3.7µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×4.0 3.15 2.5 P1 S1 RDEC71H475K2□H03□ X7S (EIA) 50Vdc 4.7µF±10% 5.5×4.0 3.15 5.0 K1 M1 RDEC71H106K3□H03□ X7S (EIA) 50Vdc 10µF±10% 5.5×5.0 4.0 2.5 P1 S1 RDEC71H126MW□H03□ X7S (EIA) 50Vdc 20µF±10% 5.5×5.0 4.0 5.0 K1 M1 RDEC71H226MW□H03□ X7R (EIA) 100Vdc 220pF±10% 5.		` '									
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RDER72A331K0□□H03□ X7R (EIA) 100Vdc 330pF±10% 5.0×3.5 2.5 2.5 P1 S1 RDER72A471K0□□H03□ X7R (EIA) 100Vdc 470pF±10% 4.0×3.5 2.5 5.0 K1 M1 RDER72A471K0□□H03□ X7R (EIA) 100Vdc 470pF±10% 5.0×3.5 2.5 2.5 P1 S1 RDER72A681K0□□H03□ X7R (EIA) 100Vdc 680pF±10% 4.0×3.5 2.5 5.0 K1 M1 RDER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 4.0×3.5 2.5 5.0 K1 M1 RDER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 5.0×3.5 2.5 5.0 K1 M1 RDER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 5.0×3.5 2.5 2.5 P1 S1		· , ,		· ·				K1	M1		
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RDER72A681K0□□H03□ X7R (EIA) 100Vdc 680pF±10% 5.0×3.5 2.5 2.5 P1 S1 RDER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 4.0×3.5 2.5 5.0 K1 M1 RDER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 5.0×3.5 2.5 2.5 P1 S1	RDER72A471K0□□H03□	X7R (EIA)	100Vdc	470pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A102K0□H03□ X7R (EIA) 100Vdc 1000pF±10% 4.0×3.5 2.5 5.0 K1 M1 RDER72A102K0□H03□ X7R (EIA) 100Vdc 1000pF±10% 5.0×3.5 2.5 2.5 P1 S1	RDER72A681K0□□H03□	X7R (EIA)	100Vdc	680pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A102K0□□H03□ X7R (EIA) 100Vdc 1000pF±10% 5.0×3.5 2.5 2.5 P1 S1	RDER72A681K0 H03	X7R (EIA)	100Vdc	680pF±10%	5.0×3.5	2.5	2.5	P1	S1		
	RDER72A102K0 H03	X7R (EIA)	100Vdc	1000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A152K0□□H03□ X7R (EIA) 100Vdc 1500pF±10% 4.0×3.5 2.5 5.0 K1 M1	RDER72A102K0□□H03□	X7R (EIA)	100Vdc	1000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
	RDER72A152K0□□H03□	X7R (EIA)	100Vdc	1500pF±10%	4.0×3.5	2.5	5.0	K1	M1		

Continued from the preceding page.										
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping		
RDER72A152K0□□H03□	X7R (EIA)	100Vdc	1500pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A222K0□□H03□	X7R (EIA)	100Vdc	2200pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A222K0□□H03□	X7R (EIA)	100Vdc	2200pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A332K0 H03	X7R (EIA)	100Vdc	3300pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A332K0 H03	X7R (EIA)	100Vdc	3300pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A472K0 H03	X7R (EIA)	100Vdc	4700pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A472K0 H03	X7R (EIA)	100Vdc	4700pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A682K0 H03	X7R (EIA)	100Vdc	6800pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A682K0 H03	X7R (EIA)	100Vdc	6800pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A103K0 H03	X7R (EIA)	100Vdc	10000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A103K0 H03	X7R (EIA)	100Vdc	10000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A153K0 H03	X7R (EIA)	100Vdc	15000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A153K0 H03	X7R (EIA)	100Vdc	15000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A223K0 H03	X7R (EIA)	100Vdc	22000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
	` ,									
RDER72A223K0 H03	X7R (EIA) X7R (EIA)	100Vdc 100Vdc	22000pF±10%	5.0×3.5	2.5	2.5 5.0	P1	S1 M1		
RDER72A333K1 HO3	, ,		33000pF±10%	4.5×3.5	3.15		K1			
RDER72A333K1□□H03□ RDER72A473K1□□H03□	X7R (EIA)	100Vdc 100Vdc	33000pF±10% 47000pF±10%	5.0×3.5 4.5×3.5	3.15 3.15	2.5 5.0	P1 K1	S1 M1		
	X7R (EIA)									
RDER72A473K1 HO3	X7R (EIA) X7R (EIA)	100Vdc 100Vdc	47000pF±10%	5.0×3.5 4.5×3.5	3.15	2.5 5.0	P1 K1	S1 M1		
RDER72A683K1 H03			68000pF±10%		3.15					
RDER72A683K1 H03	X7R (EIA)	100Vdc	68000pF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER72A104K1 H03	X7R (EIA)	100Vdc	0.1µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72A104K1 H03	X7R (EIA)	100Vdc	0.1µF±10%	5.0×3.5	3.15	2.5	P1	S1 51		
RDER72A154K2 H03	X7R (EIA)	100Vdc	0.15µF±10%	5.5×4.0	3.15	2.5	P1	S1		
RDER72A154K2 H03	X7R (EIA)	100Vdc	0.15µF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72A224K1 H03	X7R (EIA)	100Vdc	0.22µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72A224K1 H03	X7R (EIA)	100Vdc	0.22µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER72A334K1 H03	X7R (EIA)	100Vdc	0.33µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72A334K1 H03	X7R (EIA)	100Vdc	0.33µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER72A474K1 H03	X7R (EIA)	100Vdc	0.47µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72A474K1 H03	X7R (EIA)	100Vdc	0.47µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER72A684K2 H03	X7R (EIA)	100Vdc	0.68µF±10%	5.5×4.0	3.15	2.5	P1	S1		
RDER72A684K2 H03	X7R (EIA)	100Vdc	0.68µF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72A105K2□□H03□ RDER72A105K2□□H03□	X7R (EIA) X7R (EIA)	100Vdc	1.0µF±10%	5.5×4.0	3.15 3.15	2.5 5.0	P1	S1		
	` '	100Vdc	1.0µF±10%	5.5×4.0			K1 P1	M1 S1		
RDEC72A155K3 H03	X7S (EIA)	100Vdc	1.5µF±10%	5.5×5.0	4.0	2.5		M1		
RDEC72A155K3□□H03□ RDEC72A225K3□□H03□	X7S (EIA) X7S (EIA)	100Vdc 100Vdc	1.5µF±10%	5.5×5.0	4.0	5.0 2.5	K1 P1	S1		
	` ,	100Vdc	2.2μF±10% 2.2μF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDEC72A225K3 H03	X7S (EIA)	100Vdc		5.5×5.0 5.5×7.5	4.0	5.0				
RDEC72A475MW H03 RDER72E102K1 H03	, ,	250Vdc	4.7µF±20% 1000pF±10%	4.5×3.5	3.15	5.0	K1 K1	M1 M1		
RDER72E152K1 H03	X7R (EIA)	250Vdc	1500pF±10%	4.5×3.5 4.5×3.5	3.15	5.0	K1	M1		
RDER72E132K1 H03	X7R (EIA) X7R (EIA)	250Vdc	2200pF±10%	4.5×3.5 4.5×3.5	3.15	5.0	K1	M1		
RDER72E332K1 H03	X7R (EIA)	250Vdc	3300pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72E472K1 H03	X7R (EIA)	250Vdc	4700pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72E682K1 H03	X7R (EIA)	250Vdc	6800pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72E103K1 H03	X7R (EIA)	250Vdc	10000pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72E153K1 H03	X7R (EIA)	250Vdc	15000pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72E223K1 H03	X7R (EIA)	250Vdc	22000pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72E333K2 H03	X7R (EIA)	250Vdc	33000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72E473K2 H03	X7R (EIA)	250Vdc	47000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72E683K2 H03	X7R (EIA)	250Vdc	68000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72E104K2 H03	X7R (EIA)	250Vdc	0.10µF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72E154K3	X7R (EIA)	250Vdc	0.15µF±10%	5.5×5.0	3.15	5.0	K1	M1		
RDER72E224K3 H03	X7R (EIA)	250Vdc	0.22µF±10%	5.5×5.0	3.15	5.0	K1	M1		
RDER72E334K4	X7R (EIA)	250Vdc	0.33µF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER72E474K4 H03	X7R (EIA)	250Vdc	0.47µF±10%	7.5×5.5	4.0	5.0	K1	M1		
	/ · · · · (<u>- · / · / · / · / · / · / · / · / · / · </u>		J pr _ 10 /0	555	10	J.5				

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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping		
RDER72E684K5□□H03□	X7R (EIA)	250Vdc	0.68µF±10%	7.5×7.5	4.0	5.0	B1	E1		
RDER72E105K5□□H03□	X7R (EIA)	250Vdc	1.0µF±10%	7.5×7.5	4.0	5.0	B1	E1		
RDER72E225MU□□H03□	X7R (EIA)	250Vdc	2.2µF±20%	7.7×12.5	4.0	5.0	B1	E1		
RDER72H102K1□□H03□	X7R (EIA)	500Vdc	1000pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H152K1□□H03□	X7R (EIA)	500Vdc	1500pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H222K1□□H03□	X7R (EIA)	500Vdc	2200pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H332K1□□H03□	X7R (EIA)	500Vdc	3300pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H472K1□□H03□	X7R (EIA)	500Vdc	4700pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H682K1□□H03□	X7R (EIA)	500Vdc	6800pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H103K1□□H03□	X7R (EIA)	500Vdc	10000pF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER72H153K2□□H03□	X7R (EIA)	500Vdc	15000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72H223K2□□H03□	X7R (EIA)	500Vdc	22000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72H333K2□□H03□	X7R (EIA)	500Vdc	33000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72H473K2□□H03□	X7R (EIA)	500Vdc	47000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72H683K3□□H03□	X7R (EIA)	500Vdc	68000pF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDER72H104K3□□H03□	X7R (EIA)	500Vdc	0.1µF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDER72H154K4□□H03□	X7R (EIA)	500Vdc	0.15µF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER72H224K4□□H03□	X7R (EIA)	500Vdc	0.22µF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER72H334K5□□H03□	X7R (EIA)	500Vdc	0.33µF±10%	7.5×7.5	4.0	5.0	B1	E1		
RDER72H474K5□□H03□	X7R (EIA)	500Vdc	0.47µF±10%	7.5×7.5	4.0	5.0	B1	E1		
RDER72H684MU□□H03□	X7R (EIA)	500Vdc	0.68µF±20%	7.7×12.5	4.0	5.0	B1	E1		
RDER72H105MU□□H03□	X7R (EIA)	500Vdc	1.0µF±20%	7.7×12.5	4.0	5.0	B1	E1		
RDER72J102K2□□H03□	X7R (EIA)	630Vdc	1000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J152K2□□H03□	X7R (EIA)	630Vdc	1500pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J222K2□□H03□	X7R (EIA)	630Vdc	2200pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J332K2□□H03□	X7R (EIA)	630Vdc	3300pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J472K2□□H03□	X7R (EIA)	630Vdc	4700pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J682K2□□H03□	X7R (EIA)	630Vdc	6800pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J103K2□□H03□	X7R (EIA)	630Vdc	10000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J153K2□□H03□	X7R (EIA)	630Vdc	15000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J223K2□□H03□	X7R (EIA)	630Vdc	22000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER72J333K3□□H03□	X7R (EIA)	630Vdc	33000pF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDER72J473K3□□H03□	X7R (EIA)	630Vdc	47000pF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDER72J683K4□□H03□	X7R (EIA)	630Vdc	68000pF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER72J104K4 H03	X7R (EIA)	630Vdc	0.10µF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER72J154K5 H03	X7R (EIA)	630Vdc	0.15µF±10%	7.5×8.0	4.0	5.0	B1	E1		
RDER72J224K5 H03	X7R (EIA)	630Vdc	0.22µF±10%	7.5×8.0	4.0	5.0	B1	E1		
RDER72J474MU□□H03□	X7R (EIA)	630Vdc	0.47µF±20%	7.7×13.0	4.0	5.0	B1	E1		
RDER73A471K2 H03	X7R (EIA)	1000Vdc	470pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER73A681K2 H03	X7R (EIA)	1000Vdc	680pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER73A102K2 H03	X7R (EIA)	1000Vdc	1000pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER73A152K2 H03	X7R (EIA)	1000Vdc	1500pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER73A222K2 H03	X7R (EIA)	1000Vdc	2200pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER73A332K2 HO3	X7R (EIA)	1000Vdc	3300pF±10%	5.5×4.0	3.15	5.0	K1	M1		
RDER73A472K2 H03 RDER73A682K2 H03	X7R (EIA) X7R (EIA)	1000Vdc 1000Vdc	4700pF±10% 6800pF±10%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1 K1	M1 M1		
RDER73A682K2 H03 RDER73A103K2 H03	X7R (EIA)	1000Vdc	10000pF±10%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1		
RDER73A153K3 H03	X7R (EIA)	1000Vdc	15000pF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDER73A223K3 H03	X7R (EIA)	1000Vdc	22000pF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDER73A333K4 HO3	X7R (EIA)	1000Vdc	33000pF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER73A473K4 H03	X7R (EIA)	1000Vdc	47000pF±10%	7.5×5.5	4.0	5.0	K1	M1		
RDER73A683K5 H03	X7R (EIA)	1000Vdc	68000pF±10%	7.5×8.0	4.0	5.0	B1	E1		
RDER73A104K5 H03	X7R (EIA)	1000Vdc	0.10µF±10%	7.5×8.0	4.0	5.0	B1	E1		
RDER73A224MU□□H03□	X7R (EIA)	1000Vdc	0.22µF±20%	7.7×13.0	4.0	5.0	B1	E1		

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code.

The last blank column is filled with the packaging code. (B: bulk, A: ammo pack)

NIs	D		S	pecifi	cations	Tost Mathad		
No.	Ite	m 	Temperature Compensating	Туре	High Dielectric Constant Type		Test Method	
1	Operating Ten Range	nperature	-55 to +125°C		Char. X7R, X7S: -55 to +125°C		-	
2	Appearance		No defects or abnormalitie	es		Visual inspecti	ion	
3	Dimension and	l Marking	See previous pages			Visual inspecti	ion, Vernier Caliper	
	Dielectric	Between Terminals	No defects or abnormalitie	es		voltages of Ta for 1 to 5s. (Ch Temperature Compensating Type High Dielectric Constant Type	s should not be damaged when test ble are applied between the terminals narge/Discharge current ≤ 50mA) Rated Voltage	
4	Dielectric Strength	Body Insulation	No defects or abnormalitie	25		diameter so the short-circuited approximately as shown in the between capa metal balls. (Courrent ≤ 50m	Approx. 2mm Approx	
5	Insulation Resistance	Between Terminals	More than 10000M or 500MΩ • μF (Whichever is smaller)	High Dielectric Constant Type Rated voltage: DC25V, DC50V, DC100V More than 10000M or 500MΩ • μF (Whichever is smaller) Rated voltage: DC250V, DC500V, DC630V, DC1kV More than 10000M or 100MΩ • μF (Whichever is smaller)		DC voltage no in case of rate normal temper charging.	resistance should be measured with a t exceeding the rated voltage (DC500V d vlotage: DC500V, DC630V, DC1kV) at rature and humidity and within 2min of earge current ≤ 50mA)	
6	Capacitance		Within the specified tolera	nce		The capacitan	ce, Q/D.F. should be measured at 25°C	
7			30pF min.: Q ≧ 1000 30pF max.: Q ≧ 400+20C C: Nominal capacitance (pl	00 Char. X7R: 0.025 max.		at the frequency and voltage shown in the table. Nominal Cap. Frequency Voltage $C \le 1000 pF$ $1 \pm 0.1 MHz$ $AC0.5 to 5V (r.m.s.)$ $10 \mu F \ge C > 1000 pF$ $1 \pm 0.1 kHz$ $AC1 \pm 0.2 V (r.m.s.)$ $C > 10 \mu F$ $120 \pm 24 Hz$ $AC0.5 \pm 0.1 V (r.m.s.)$		

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No.	lto	m		Specifi	cations		Test Method	
NO.	Ite	m	Tempera	ture Compensating Type	High Dielectric Constant Type	rest Method		
				Char. Temperature Coefficient 25 to 125°C: COG 0±30ppm/°C			min at each specific The temperature co capacitance measu cycling the tempera through 5 (-55 to +	lange should be measured after 5 and temperature stage. Defficient is determined using the street in step 3 as a reference. When ature sequentially from step 1 125°C) the capacitance should be 1 tolerance for the temperature acitance change.
8	Capacitance T	emperature		-55 to 25°C : 0+30/-72ppm/°C	Char. Capacitance Change X7R Within ± 15%	Step	Temperature (°C)	
Ü	Characteristic	s	U2J	25 to 125°C: -750±120ppm/°C -55 to 25°C: -750+120/-347ppm/°C	X7S Within ± 22%	1 2 3 4	25±2 -55±3 25±2 125±3	
				1-73011207 347 ppini/ C		5	25±2	
						Perform a heat trea	high dielectric constant type) atment at 150+0/-10°C for 1h, and temperature for 24±2h.	
						gradually to each le capacitor until reac applied for 10±1s.	the capacitor body, apply the force had in the radial direction of the thing 10N and then keep the force	
9	Tensile Strength Terminal Strength	Tensile Strength	Termina	tion not to be broken or	loosened	F		
		Bending Strength	Termina	tion not to be broken or	loosened	and then bent 90° a direction. Each wire	ald be subjected to a force of 2.5N at the point of egress in one is then returned to the original 0° in the opposite direction at the er 2 to 3s.	
		Appearance	No defe	cts or abnormalities		The capacitor should be firmly soldered to the		
	Vibration	Capacitance	Within t	ne specified tolerance		''	e and vibrated at a frequency range nm in total amplitude, with about a	
10	Vibration Resistance Q/D.F.		30pF ma	n.: Q ≧ 1000 ax.: Q ≧ 400+20C nal capacitance (pF)	Char. X7R: 0.025 max. Char. X7S: 0.125 max.	1 minute rate of vib	oration change from 10 to 55Hz Apply for a total of 6h, 2h each in 3	
11	1 Solderability of Leads		I	Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential direction.		(JIS-K-8101) soluti then into molten so depth of dipping is u terminal body. Temp. of solder: 245±	apacitor is dipped into a 25% ethanol on of rosin (JIS-K-5902) and older for 2±0.5s. In both cases the up to about 1.5 to 2mm from the :5°C Lead Free Solder (Sn-3.0Ag-0.5Cu) :5°C H60A or H63A Eutectic Solder	
	Resistance to	t	I	sured and observed cha ations in the following ta	aracteristics should satisfy the able.	solder 1.5 to 2.0mn	ıld be immersed in the melted n from the root of terminal at	
	(Non-Preheat)	Appearance	No defe	cts or abnormalities		260±5°C for 10±1s Pre-treatment	i.	
12 ' 1		Capacitance Change	1	2.5% or ±0.25pF ver is larger)	Char. X7R: Within ±7.5% Char. X7S: Within ±10%	Capacitor should b then place at room	e stored at 150+0/-10°C for 1h, temperature for 24±2h	
	Dielectric Strength (Between Terminals)		No defe	ets		Post-treatment	urement. (For Char. X7R, X7S) se stored for 24±2h at room	

^{* &}quot;room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

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			Specifi	cations	Test Method				
No.	Iter	n	Temperature Compensating Type	High Dielectric Constant Type					
	Resistance to Soldering Heat	:	The measured and observed cha specifications in the following ta	•	60+0/-5s				
	(On-Preheat)	Appearance	No defects or abnormalities		· '	Then, the lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at			
12		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Char. X7R: Within ±7.5% Char. X7S: Within ±10%	260±5°C Pre-treati				
2	Dielectric Strength (Between Terminal		No defects	Capacitor should be stored at 150+0/-10°C for 1h, then place at room temperature for 24±2h before initial measurement. (For Char. X7R, X7S) Post-treatment Capacitor should be stored for 24±2h at room condition*.					
	Resistance to Soldering Heat	:	The measured and observed cha specifications in the following ta	•	Test cond Temperra	ition ature of iron-tip: 350±10°C			
	(Soldering Iron Method)	Appearance	No defects or abnormalities		_	time: 3.5±0.5s.			
12	non recilody	Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Char. X7R: Within ±7.5% Char. X7S: Within ±10%	Soldering position Straight Lead: 1.5 to 2.0mm from the root of termin Crimp Lead: 1.5 to 2.0mm from the end of lead ber				
3		Dielectric Strength (Between Terminals)	No defects		Pre-treatment Capacitor should be stored at 150+0/-10°C for 1l then place at room temperature for 24±2h before initial measurement. (For Char. X7R, X7S) Post-treatment Capacitor should be stored for 24±2h at room condition*.				
		Appearance	No defects or abnormalities						
	Temperature	Capacitance Change	Within ±5% or ±0.5pF (whichever is larger)	Char. X7R, X7S: Within ±12.5%	The capacitor should be subjected to 5 temperature cycles. Set for 24±2h at room temperature, then measure.				
13		Q/D.F.	30pF min.: Q ≧ 350 10pF to 30pF: Q ≧ 275+5C/2 10pF max.: Q ≧ 200+10C C: Nominal capacitance (pF)	Char. X7R: 0.05 max. Char. X7S: 0.2 max.	Step Temperature (°C) 1 Min. Operating Temp. ±3 2 Room Temp.		Time (min) 30±3 3 max.		
	Cycle	Insulation Resistance	1000MΩ, 50MΩ • μF min. (which	never is smaller)	3 4	Max. Operating Temp. ±3 Room Temp.	30±3 3 max.		
		Dielectric Strength (Between Terminals)	No defects or abnormalities		Pretreatment (for high dielectric constant type) Perform a heat treatment at 150+0/-10°C for 1h, and then let sit at room temperature for 24±2h.				
		Appearance	No defects or abnormalities						
		Capacitance Change	Within ±5% or ±0.5pF (whichever is larger)	Char. X7R, X7S: Within ±12.5%		pacitor at 40±2°C and relative 6 for 500 ^{±24} h.	humidity of		
14	Humidity (Steady State)	Q/D.F.	30pF min.: Q ≧ 350 10pF to 30pF: Q ≧ 275+5C/2 10pF max.: Q ≧ 200+10C C: Nominal capacitance (pF)	Char. X7R: 0.05 max. Char. X7S: 0.2 max.	Remove and set for 24±2h at room temperature, then measure. • Pretreatment (for high dielectric constant type) Perform a heat treatment at 150+0/-10°C for 1h, and then let sit at room temperature for 24±2h.				
		Insulation Resistance	1000MΩ, 50MΩ • μF min. (which	never is smaller)					
		Appearance	No defects or abnormalities			5 500+241	40.000		
		Capacitance Change	Within ±5% or ±0.5pF (whichever is larger)	Char. X7R, X7S: Within ±12.5%	Apply the rated voltage for 500^{+24}_{-0} h at $40\pm2^{\circ}$ C and in 90 to 95% humidity. Remove and set for 24 ± 2 h at room temperature, the				
15	Humidity Load	Q/D.F.	30pF min.: Q ≥ 200 30pF max.: Q ≥ 100+10C/3 C: Nominal capacitance (pF)	Char. X7R: 0.05 max. Char. X7S: 0.2 max.	measure. (Charge/I • Pretreat	measure. (Charge/Discharge current ≤ 50mA) • Pretreatment (for high dielectric constant type)			
	Insulation Resistance		500MΩ or 25MΩ • μF min. (whic	Perform a heat treatment at 150+0/-10°C for 1h, and then let sit at room temperature for 24±2h.					

 $^{^{\}star}$ "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

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			Specifi	cations	Test Method					
No	. Ite	m	Temperature Compensating Type	High Dielectric Constant Type						
		Appearance	No defects or abnormalities			Apply voltage in Table for 1000 ⁺⁴⁸ _O h at the				
		Capacitance Change	Within ±3% or ±0.3pF (whichever is larger)	Char. X7R, X7S: Within ±12.5%	maximum operating temperature±3°C. Remove and set for 24±2h at room temperature, then measure. (Charge/Discharge current ≤ 50mA)					
						Rated Voltage	Test Voltage			
	High Temperature				Temperature Compensating	DC50V, DC100V, DC250V	150% of the rated voltage			
16			30pF min.: Q ≧ 350 10pF to 30pF: Q ≧ 275+5C/2 10pF max.: Q ≧ 200+10C C: Nominal capacitance (pF)	Char. X7R: 0.04 max. Char. X7S: 0.2 max.	Туре	DC630V, DC1kV	120% of the rated voltage			
	Load	Q/D.F.			High Dielectric	DC25V, DC50V, DC100V, DC250V	150% of the rated voltage			
				Char. X75: 0.2 max.	Constant Type	DC500V, DC630V	120% of the rated voltage			
					-	DC1kV	110% of the rated voltage			
		Insulation Resistance 1000MΩ, 50 MΩ • μ F min. (whichever is sm		never is smaller)	Pretreatment (for high dielectric constant type) Appy test voltage for 1h at test temperature. Remove and set for 24±2h at room temperature.					
		Appearance	No defects or abnormalities		The capacitor should be fully immersed, unagitated, in					
17	Solvent Resistance	Marking	Legible	reagent at 20 to 25°C for 30±5s and then removed gently. Marking on the surface of the capacitor should immediately be visually examined. Reagent: Isopropyl alcohol						

Leaded MLCC for General Purpose

■ RDE Series Large Capacitance and High Allowable Ripple Current (DC250V-DC630V)

Features

- 1. Higher capacitance with DC-Bias; approximately 40% higher than X7R under loaded rated voltage.
- 2. Meet LF (Lead Free) and HF (Halogen Free)
- 3. Allowable higher ripple current
- Reduces acoustic noise
 Approximately 15dB reduction in comparison to leaded X7R characteristics parts.

 Approximately 30dB reduction in comparison to SMD X7R characteristics part because the contact area is smaller than a SMD.

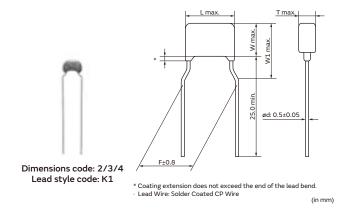
Applications

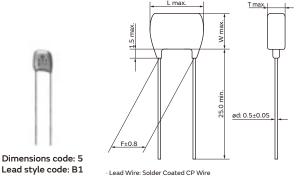
- 1. DC smoothing capacitor for LED bulb
- 2. PFC capacitor for general use SMPS
- 3. Replace Al-E capacitor for long-life equipment

Dimensions

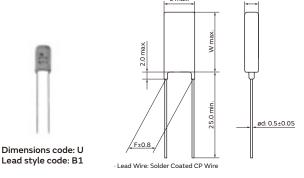
Dimensions and	DC Rated	Dimensions (mm)						
Lead Style Code	Voltage	L	W	W1	Т	F	d	
2K1/2M1	250V/450V/630V	5.5	4.0	6.0		5.0	0.5	
3K1/3M1	250V/450V/630V	5.5	5.0	7.5	See		0.5	
4K1/4M1	250V/450V/630V	7.5	5.5	8.0	the individual product	5.0	0.5	
5B1/5E1	250V/450V/630V	7.5	7.5*	-	specification	5.0	0.5	
UB1/UE1	250V/450V/630V	7.7	12.5*	-		5.0	0.5	

^{*}DC630V: W+0.5mm





(in mm)



Marking

Rated Voltage	DC250V	DC450V	DC630V		
Code Temp. Char.		Х7Т			
2	(F) 683 K47	(F) 153 K97	(P 153)		
3, 8	(M 334 K47	(M 104 K97	(€ 223 K77		
5, U	② 225 M47	(M) 474 K97	(M) 474 M77		
Temperature Characteristics	Marked with code (X7T char.: 7)				
Nominal Capacitance	Marked with 3 figures				
Capacitance Tolerance	Marked with code				
Rated Voltage	Marked with code (DC250V: 4, DC450V: 9, DC630V: 7)				
Manufacturer's Identification	Marked with M				

Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RDED72E333K2□□H03□	X7T (EIA)	250Vdc	33000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72E473K2□□H03□	X7T (EIA)	250Vdc	47000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72E683K2□□H03□	X7T (EIA)	250Vdc	68000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72E104K3□□H03□	X7T (EIA)	250Vdc	0.10µF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72E154K3□□H03□	X7T (EIA)	250Vdc	0.15µF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72E224K4□□H03□	X7T (EIA)	250Vdc	0.22µF±10%	7.5×5.5	4.0	5.0	K1	M1
RDED72E334K4□□H03□	X7T (EIA)	250Vdc	0.33µF±10%	7.5×5.5	4.0	5.0	K1	M1
RDED72E474K5□□H03□	X7T (EIA)	250Vdc	0.47µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72E684K5□□H03□	X7T (EIA)	250Vdc	0.68µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72E105K5□□H03□	X7T (EIA)	250Vdc	1.0µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72E225MU□□H03□	X7T (EIA)	250Vdc	2.2µF±20%	7.7×12.5	4.5	5.0	B1	E1
RDED72W103K2□□H03□	X7T (EIA)	450Vdc	10000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72W153K2□□H03□	X7T (EIA)	450Vdc	15000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72W223K2□□H03□	X7T (EIA)	450Vdc	22000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72W333K2□□H03□	X7T (EIA)	450Vdc	33000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72W473K2□□H03□	X7T (EIA)	450Vdc	47000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72W683K3□□H03□	X7T (EIA)	450Vdc	68000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72W104K3□□H03□	X7T (EIA)	450Vdc	0.10µF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72W154K4□□H03□	X7T (EIA)	450Vdc	0.15µF±10%	7.5×5.5	4.0	5.0	K1	M1
RDED72W224K5□□H03□	X7T (EIA)	450Vdc	0.22µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72W334K5□□H03□	X7T (EIA)	450Vdc	0.33µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72W474K5□□H03□	X7T (EIA)	450Vdc	0.47µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72W564K5□□H03□	X7T (EIA)	450Vdc	0.56µF±10%	7.5×7.5	4.5	5.0	B1	E1
RDED72W105MU□□H03□	X7T (EIA)	450Vdc	1.0µF±20%	7.7×12.5	4.5	5.0	B1	E1
RDED72W125MU□□H03□	X7T (EIA)	450Vdc	1.2µF±20%	7.7×12.5	4.5	5.0	B1	E1
RDED72J103K2□□H03□	X7T (EIA)	630Vdc	10000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72J153K2□□H03□	X7T (EIA)	630Vdc	15000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72J223K3□□H03□	X7T (EIA)	630Vdc	22000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72J333K3□□H03□	X7T (EIA)	630Vdc	33000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72J473K3□□H03□	X7T (EIA)	630Vdc	47000pF±10%	5.5×5.0	4.0	5.0	K1	M1
RDED72J683K4□□H03□	X7T (EIA)	630Vdc	68000pF±10%	7.5×5.5	4.0	5.0	K1	M1
RDED72J104K5□□H03□	X7T (EIA)	630Vdc	0.10µF±10%	7.5×8.0	4.5	5.0	B1	E1
RDED72J154K5□□H03□	X7T (EIA)	630Vdc	0.15µF±10%	7.5×8.0	4.5	5.0	B1	E1
RDED72J224K5□□H03□	X7T (EIA)	630Vdc	0.22µF±10%	7.5×8.0	4.5	5.0	B1	E1

1 01	0							
Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW (mm)	Dimension T (mm)	Lead Space F (mm)	Lead Style Code Bulk	Lead Style Code Taping
RDED72J274K5□□H03□	X7T (EIA)	630Vdc	0.27µF±10%	7.5×8.0	4.5	5.0	B1	E1
RDED72J474MU□□H03□	X7T (EIA)	630Vdc	0.47µF±20%	7.7×13.0	4.5	5.0	B1	E1
RDED72J564MU□□H03□	X7T (EIA)	630Vdc	0.56µF±20%	7.7×13.0	4.5	5.0	B1	E1

Two blank columns are filled with the lead style code. Please refer to the 3 columns on the right for the appropriate code. The last blank column is filled with the packaging code. (B: bulk, A: ammo pack)

No.	lte	m	Specifications	Test Method		
1	Operating Ten Range	nperature	-55 to +125°C	-		
2	Appearance		No defects or abnormalities	Visual inspection		
3	Dimension and	d Marking	See previous pages	Visual inspection, Vernier Caliper		
		Between Terminals	No defects or abnormalities	The capacitor should not be damaged when voltage in Table is applied between the terminations for 1 to 5s. (Charge/Discharge current ≤ 50mA) Rated Voltage Test Voltage DC250V 200% of the rated voltage DC450V 150% of the rated voltage DC630V 120% of the rated voltage		
4	Dielectric Strength	Body Insulation	No defects or abnormalities	The capacitor is placed in a container with metal balls of 1mm diameter so that each terminal, short-circuit, is kept approximately 2mm from the balls as shown in the figure, and 200% of the rated DC voltage is impressed for 1 to 5s between capacitor terminals and metal balls. (Charge/Discharge current ≤ 50mA)		
5	Insulation Between Terminals		More than $10000 M\Omega$ or $100 M\Omega$ • μF , Whichever is smaller	The insulation resistance should be measured with DC500V (DC250V in case of rated voltage: DC250V,DC450V) at normal temperature and humidity and within 2min of charging. (Charge/Discharge current ≤ 50mA)		
6	Capacitance		Within the specified tolerance	The capacitance/D.F. should be measured at the		
7	Dissipation Fa	ctor (D.F.)	0.01 max.	frequency of 1±0.1kHz and a voltage of AC1±0.2V(r.m.s.).		
				The capacitance change should be measured after 5min at each specified temperature stage.		
8	Capacitance Temperature Characteristic	s	Within +22/-33%	Step Temperature (°C) 1 25±2 2 -55±3 3 25±2 4 125±3 5 25±2		
9	Terminal Strength			As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep the force applied for 10±1s.		
		Bending Strength Termination not to be broken or loosened		Each lead wire should be subjected to a force of 2.5N and then bent 90° at the point of egress in one direction. Each wire is then returned to the original position and bent 90° in the opposite direction at the rate of one bend per 2 to 3s.		
		Appearance	No defects or abnormalities	The capacitor should be firmly soldered to the		
10	Vibration	Capacitance	Within the specified tolerance	supporting lead wire and vibrated at a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a		
10	Vibration Resistance D.F.		0.01 max.	1 minute rate of vibration change from 10 to 55Hz and back to 10Hz. Apply for a total of 6h, 2h each in 3 mutually perpendicular directions.		

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No.	Iter	n	Specifications	Test Method				
11	1 Solderability of Leads		Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential direction.	The terminal of a capacitor is dipped into a solution of ethanol (JIS-K-8101) and rosin (JIS-K-5902) (25% ros in weight proportion) and then into molten solder (JIS-Z-3282) for 2±0.5s. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body. Temp. of solder: 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu 235±5°C H60A or H63A Eutectic Solder				
	Resistance to Soldering Heat (Non-Preheat) Appearance		The measured and observed characteristics should satisfy the specifications in the following table. No defects or abnormalities	The lead wires should be immersed in the melted solder 1.5 to 2.0mm from the root of terminal at 260+5°C for 10+1s.				
12		Capacitance Change	Within ±10%	Pre-treatment Capacitor should be stored at 150+0/-10°C for 1h, then place at room temperature for 24±2h before				
1		Dielectric Strength (Between Terminals)	No defects	initial measurement. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
	Resistance to Soldering Heat	:	The measured and observed characteristics should satisfy the specifications in the following table.	First the capacitor should be stored at 120+0/-5°C fo 60+0/-5s.				
12	(On-Preheat)	Appearance Capacitance	No defects or abnormalities Within ±10%	Then, the lead wires should be immersed in the melter solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s.				
2		Dielectric Strength (Between Terminals)	No defects	Pre-treatment Capacitor should be stored at 150+0/-10°C for then place at room temperature for 24±2h befor initial measurement. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
	Resistance to Soldering Heat		The measured and observed characteristics should satisfy the specifications in the following table.	Test condition Temperrature of iron-tip: 350±10°C				
	(Soldering Iron Method)	Appearance	No defects or abnormalities	Soldering time: 3.5±0.5s. Soldering position				
12		Capacitance Change	Within ±10%	Straight Lead: 1.5 to 2.0mm from the root of terminal. Crimp Lead: 1.5 to 2.0mm from the end of lead bend. Pre-treatment				
3		Dielectric Strength (Between Terminals)	No defects	Capacitor should be stored at 150+0/-10°C for 1h, then place at room temperature for 24±2h before initial measurement. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
	Appearance		No defects or abnormalities	The capacitor should be subjected to 5 temperature				
		Capacitance Change	Within ±12.5%	cycles. Step Temperature (°C) Time (min)				
		D.F.	0.01 max.	1 -55±3 30±3 2 Room Temp. 3 max.				
13	Temperature Cycle	Insulation Resistance	More than $1000M\Omega$ or $50M\Omega$ • μF (Whichever is smaller)	3 125±3 30±3 4 Room Temp. 3 max.				
		Dielectric Strength (Between Terminals)	No defects or abnormalities	• Pretreatment Perform a heat treatment at 150+0/-10°C for 1h, and then let sit at room temperature for 24±2h.				
		Appearance	No defects or abnormalities	Set the capacitor at 40±2°C and relative humidity of				
14	Humidity (Steady	Capacitance Change	Within ±12.5%	90 to 95% for 500 ^{±2} / _O h. Remove and set for 24±2h at room temperature, then measure.				
- '	State)	D.F.	0.02 max.	Pretreatment				
	,	Insulation Resistance	More than $1000 M\Omega$ or $50 M\Omega$ • μF (Whichever is smaller)	Perform a heat treatment at 150+0/-10°C for 1h and then let sit at room temperature for 24±2h.				
	Appearance		No defects or abnormalities	Apply the rated voltage at 40±2°C and relative				
				humidity of 90 to 95% for 500 ⁺²⁴ h. Remove and se for 24±2h at room temperature, then measure.				
15	Humidity	Capacitance Change	Within ±12.5%	for 24±2h at room temperature, then measure. (Charge/Discharge current ≤ 50mA)				
15	Humidity Load	•	Within ±12.5% 0.02 max.	· · · · · · · · · · · · · · · · · · ·				

 $^{^{*}}$ "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere pressure: 86 to 106kPa

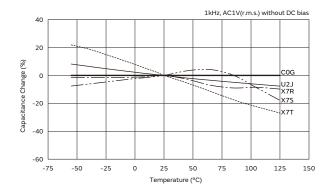
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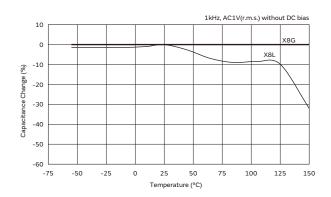
No.	o. Item		Specifications	Test Method			
		Appearance	No defects or abnormalities	Apply voltage in Table for 1000 ⁺⁴ ₀ 8h at the maximum operating temperature. Remove and set for 24±2h at room temperature, then measure. (Charge/Discharge current ≦ 50mA)			
		Capacitance Change	Within ±12.5%				
		D.F.	0.02 max.	Rated Voltage Test Voltage			
16	High Temperature Load	Insulation Resistance		DC250V DC450V DC630V	150% of the rated voltage 130% of the rated voltage 120% of the rated voltage		
			More than $1000 M\Omega$ or $50 M\Omega$ • μF (Whichever is smaller)	 Pretreatment Apply test voltage for 1h, at test temperature. Remove and set for 24±2h at room temperature. 			
		Appearance	No defects or abnormalities	The capacitor should be fully immersed, unagitated, in reagent at 20 to 25°C for 30±5s and then removed gently. Marking on the surface of the capacitor should immediately be visually examined. Reagent: Isopropyl alcohol			
17	Solvent Resistance	Marking	Legible				

Characteristics Reference Data (Typical Example)

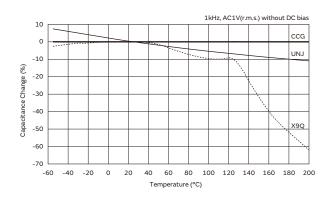
Capacitance - Temperature Characteristics (RCE, RDE Series)



Capacitance - Temperature Characteristics (RHE Series)

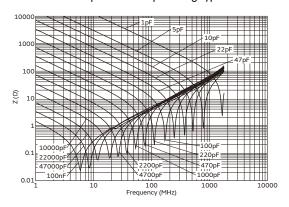


Capacitance - Temperature Characteristics (RHS Series)

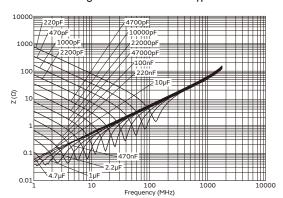


Impedance - Frequency Characteristics

Temperature Compensating Type

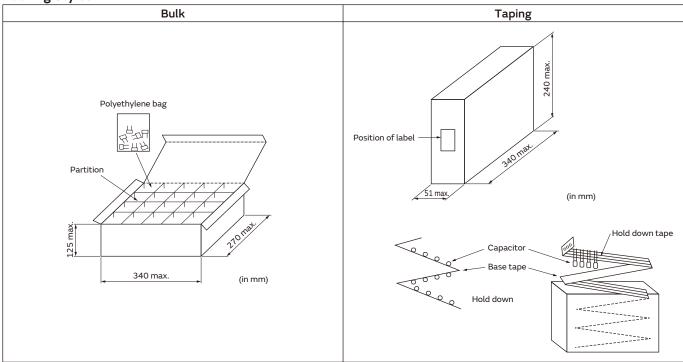


High Dielectric Constant Type



Packaging

Packing Styles



Minimum Quantity

[Bulk]

Series	Dimensions Code	Minimum Quantity (pcs./Bag)*
RCE	Except for "U"	500
RCE	U	200
RHE	0, 1, 2, 3, W	500
RHS	0, 1, 2	500
RDE	Except for "U"	500
RDE	U	200

[Taping]

[Taping]							
Series	Dimensions Code	Minimum Quantity (pcs./Ammo Pack)*					
	0, 1, 2	2000					
RCE	3	2000 or 1500					
	4, 5, U, W	1500					
RHE	0, 1, 2	2000					
	3, W	1500					
RHS	0, 1	2000					
	2	1500					
PDF.	0, 1, 2	2000					
	3	2000 or 1500					
RDE	4, 5, W	1500					
	U	1500 or 1000					

Please order with an integral multiple of the minimum quantity above.

 $\hbox{*Minimum Quantity may change depends on part number}.$

Please check our website "Product details".

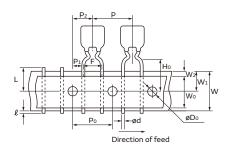
"Minimum Quantity" means the numbers of units of each delivery or order. The quantity should be an integral multiple of the "minimum quantity." (Please note that the actual delivery quantity in a package may change sometimes.)

Packaging

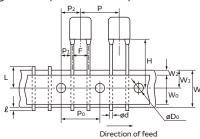
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Taping Dimensions

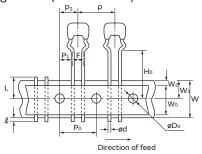
Inside Crimp Taping Lead Spacing 5.0mm (Lead Code: M1, M2)

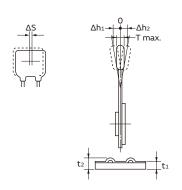


Straight Taping
Lead Spacing 2.5mm (Lead Code: DB, DG)
Lead Spacing 5.0mm (Lead Code: E1)



Outside Crimp Taping Lead Spacing 2.5mm (Lead Code: S1)





Dimension of capacitors on tape (in mm)

Differsion of capacitors on tape		Lead Code					
ltem	Code	DB	DG	E1	M1	M2	S1
Pitch of component	Р	12.7±1.0					
Pitch of sprocket hole	Po	12.7±0.2					
Lead spacing	F	2.5 +0.4		5.0 ^{+0.6} _{-0.2}		2.5 ^{+0.4} _{-0.2}	
Length from hole center to component center	P ₂	6.35±1.3					
Length from hole center to lead	P1	5.1±0.7		3.85±0.7		5.1±0.7	
Length from note center to lead		254±1.5 total length of componestspitch × 20					
Deviation along tape, left or right defect	ΔS	0±2.0					
Carrier tape width	W	18.0±0.5					
Position of sprocket hole	W1	9.0-0.5					
Lead distance between reference and	Ho	- 16.0±0.5 20.0±0.5		16.0±0.5			
bottom plane	Н	16.0±0.5 20.0±0.5 17.5±0.5 -					
Protrusion length	l	0.5 max.					
Diameter of sprocket hole	Do	4.0±0.1					
Lead diameter	d	0.5±0.05					
Total tape thickness	t1	0.6±0.3					
Total thickness of tape and lead wire	t2	1.5 max.					
Body thickness	Т	Depends on Part Number					
Deviation across tape	Δh1	1.0 max.					
	Δh2	(Dimension code W, U: 2.0 max.)					
Portion to cut in case of defect	L	11.0 +0					
Hold down tape width	Wo	9.5 min.					
Hold down tape position	W2	1.5±1.5					

!\Caution

(Caution (Storage and Operating Condition)

Operating and storage environment

The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. Also avoid exposure to moisture. Before cleaning, bonding or molding this product, verify that these processes do not affect product quality by testing the performance of a cleaned, bonded or molded product in the intended

equipment. Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees centigrade and 20 to 70%.
Use capacitors within 6 months after delivery.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.

∴Caution (Rating)

1. Operating Voltage

When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp-p value of the applied voltage or the V0-p which contains DC bias within the rated voltage range.

When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for a transit period because of resonance or switching. Be sure to use a capacitor with a rated voltage range that includes these irregular voltages.

When DC-rated capacitors are to be used in input circuits from commercial power source (AC filter), be sure to use Safety Recognized Capacitors because various regulations on withstand voltage or impulse withstand established for all equipment should be taken into consideration.

Voltage	DC Voltage	DC+AC Voltage	AC Voltage	Pulse Voltage (1)	Pulse Voltage (2)
Positional Measurement	Vo-p	Vo-p	Vp-p	Vp-p	Vp-p

2. Operating Temperature

Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself (Please refer to the following column 3) and by peripheral components.

3. Self-generated Heat

When the capacitor is used in a high-frequency current, pulse current or similar current, it may have self-generated heat due to dielectric loss. In the case of "High Dielectric Constant Type Capacitors", applied voltage load should be such that self-generated heat is within 20 °C under the condition where the capacitor is subjected at an atmosphere temperature of 25 °C. Excessive heat may lead to deterioration of the capacitor's characteristics and reliability. Please contact us if self-generated heat occurs with "Temperature Compensating Type Capacitors".

4. Measurement of Temperature

The surface temperature of capacitor should be measured under the condition where an atmosphere

temperature and a heat from peripheral components are stable.

The self-generated heat should be measured under the conditions where the capacitor is subjected at an atmosphere temperature 25°C and is not affected by radiant heat from other components or wind from surroundings.

When measuring, use a thermocouple of small thermal capacity -K of ø0.1mm.

Never attempt to perform measurement with the cooling fan running. Otherwise, accurate measurement cannot be ensured.

5. Fail-Safe

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.

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!Caution

(Caution (Soldering and Mounting)

1. Vibration and impact

Do not expose a capacitor or its leads to excessive shock or vibration during use.

2. Soldering

When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specification of the capacitor. Subjecting this product to excessive heating could melt the internal junction solder and may result in thermal shocks that can crack the ceramic element.

3. Bonding, resin molding and coating

In case of bonding, molding or coating this product, verify that these processes do not affect the quality of the capacitor by testing the performance of the bonded, molded or coated product in the intended equipment.

In case the amount of application, dryness/ hardening conditions of adhesives and molding resins containing organic solvents (ethyl acetate, methyl ethyl ketone, toluene, etc.) are unsuitable, the outer coating resin of a capacitor may be damaged by the organic solvents and may result, worst case, in a short circuit.

The variation in thickness of adhesive or molding resin or coating may cause an outer coating resin cracking and/or ceramic element cracking of a capacitor in a temperature cycling.

4. Treatment after bonding, resin molding and coating When the outer coating is hot (over 100 degrees centigrade) after soldering, it becomes soft and fragile, so please be careful not to give it mechanical stress.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.

Caution (Handling)

Vibration and impact

Do not expose a capacitor or its leads to excessive shock or vibration during use.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND CAUSE FUMING OR PARTIAL DISPERSION WHEN THE PRODUCT IS USED.

Notice

Notice (Rating)

Capacitance change of capacitor
In case of high dielectric constant type capacitors
Capacitors have an aging characteristic, whereby
the capacitor continually decreases its capacitance
slightly if the capacitor is left on for a long
time. Moreover, capacitance might change greatly
depending on the surrounding temperature or an
applied voltage.

Notice (Soldering and Mounting)

1. Cleaning (ultrasonic cleaning)

To perform ultrasonic cleaning, observe the following conditions.

Rinse bath capacity: Output of 20 watts per liter or less.

Rinsing time: 5 min. maximum.

Do not vibrate the PCB/PWB directly.

Excessive ultrasonic cleaning may lead to fatigue

destruction of the lead wires.

2. Soldering and Mounting

Insertion of the Lead Wire

- When soldering, insert the lead wire into the PCB without mechanically stressing the lead wire.
- Insert the lead wire into the PCB with a distance appropriate to the lead space.

Global Locations

For details please visit www.murata.com



⚠Note

1 Export Control

For customers outside Japan:

No Murata products should be used or sold, through any channels, for use in the design, development, production, utilization, maintenance or operation of, or otherwise contribution to (1) any weapons (Weapons of Mass Destruction [nuclear, chemical or biological weapons or missiles] or conventional weapons) or (2) goods or systems specially designed or intended for military end-use or utilization by military end-users.

For customers in Japan:

For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

- Please contact our sales representatives or product engineers before using the products in this catalog for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.
 - Aircraft equipment
 - Aerospace equipment
 - 3 Undersea equipment
 - Power plant equipment
 - Medical equipment
 - Transportation equipment (vehicles, trains, ships, etc.)
 - Traffic signal equipment
 - S Disaster prevention / crime prevention equipment
 - Data-processing equipment
 - Application of similar complexity and/or reliability requirements to the applications listed above

- 3 Product specifications in this catalog are as of October 2019. They are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering. If there are any questions, please contact our sales representatives or product engineers.
- 4 Please read rating and \(\Delta\)CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
- 5 This catalog has only typical specifications.
 Therefore, please approve our product
 specifications or transact the approval sheet
 for product specifications before ordering.
- Please note that unless otherwise specified, we shall assume no responsibility whatsoever for any conflict or dispute that may occur in connection with the effect of our and/or a third party's intellectual property rights and other related rights in consideration of your use of our products and/or information described or contained in our catalogs. In this connection, no representation shall be made to the effect that any third parties are authorized to use the rights mentioned above under licenses without our consent.
- 7 No ozone depleting substances (ODS) under the Montreal Protocol are used in our manufacturing process.

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