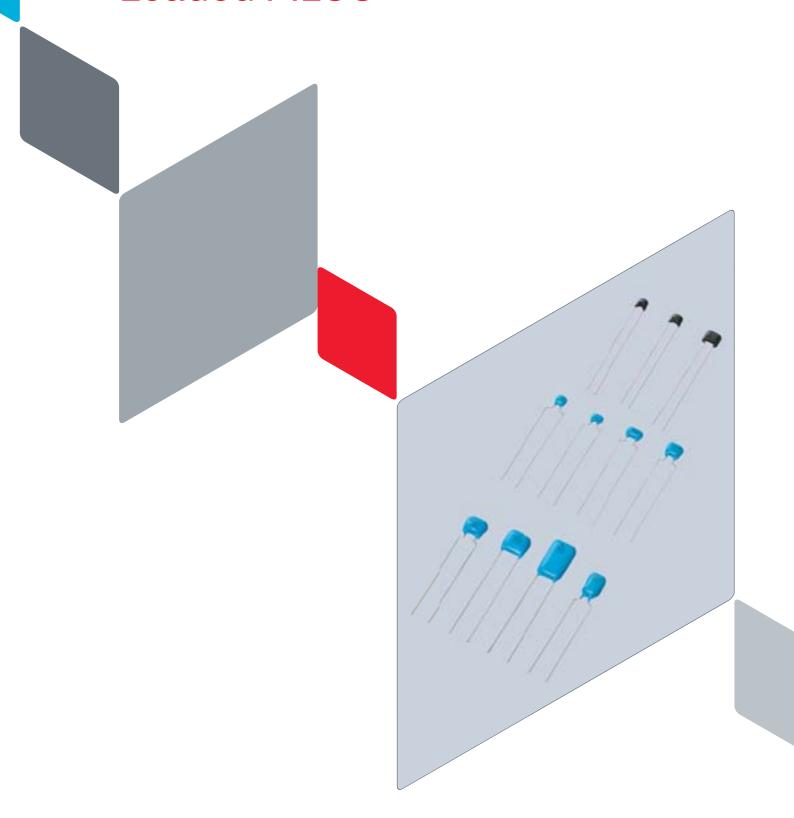
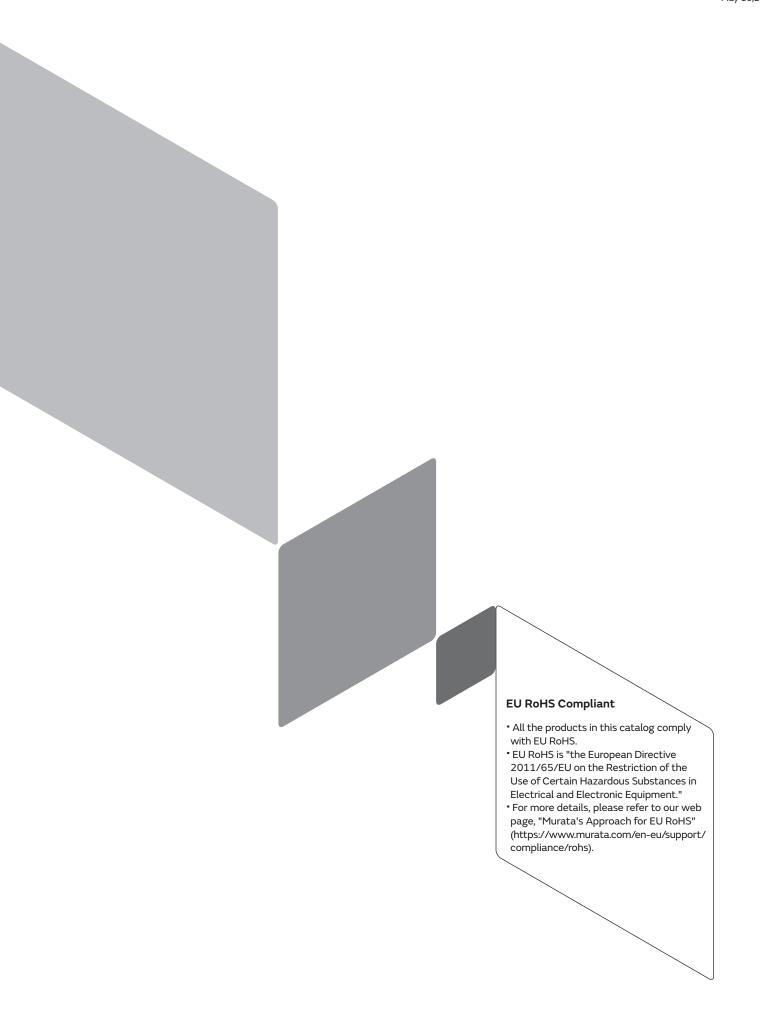


Leaded MLCC





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Product specifications are as of February 2018.

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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) RC E R7 1H 104 K 0 M1 H03 A

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	175°C/200°C Operation Leaded MLCC for Automotive
RD	E	Leaded MLCC for General Purpose

3 Temperature Characteristics

Temperatu	ıre Characte	ristic		Temperature Cha														
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												
50	Cod	EIA	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												
50		1	25 C	-55 to 25°C	0+30/-72ppm/°C	-55 to 150 °C												
				-55 to 25°C	0+30/-72ppm/°C													
7G	ccg	CCG	CCG	CCG	CCG	CCG	CCG	CCG	CCG	CCG	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	LINU	UNJ	UNJ	UNJ	UNJ	UNJ	*1	25°C	25 to 125°C	-750±120ppm/°C	-55 to 200°C							
				125 to 200°C	-750+347/-120ppm/°C													
7U	U2J	EIA	25°C	25 to 125°C*2	-750±120ppm/°C	-55 to 125°C												
70	023	EIA	25-0	-55 to 25°C	-750+120/-347ppm/°C	-55 (0 125 °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												
L1	XAL	*1	25°C	-55 to 175°C	+15%, -40%	-55 to 175°C												
L8	X8L	*1	25°C	-55 to 150°C	+15%, -40%	-55 to 150°C												
N1	XAN	*1	25°C	-55 to 175°C	+15%, -60%	-55 to 175°C												
R7	X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°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
3A	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. \nearrow

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

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

7Dimensions (LxW)

Code		Dimensions (LxW)				
	RCE Series	26.25				
	RHE Series	3.6×3.5mm max.				
0	RHS Series	3.8×3.5mm max.				
	RDE Series	4.0×3.5mm max. or 5.0×3.5mm max. (Depends on Part Number List)				
	RCE Series					
	RHE Series	4.0×3.5mm max.				
1	RHS Series					
	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	(DC630\	7.5×7.5mm max. /, DC1kV : 7.5×8.0mm max.)				
U	(DC630V	7.5×12.5mm max. , 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

9Individual Specification Code

Expressed by three figures

Packaging

Code	Packaging
Α	Ammo Pack
В	Bulk

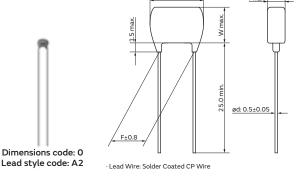
muRata

(in mm)

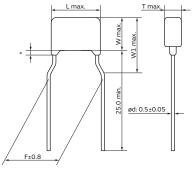
Leaded MLCC for Automotive

Features

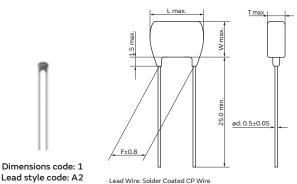
- 1. Small size and large capacitance
- 2. Low ESR and ESL suitable for high frequency
- 3. Meet AEC-Q200, ISO7637-2 (surge test) requirement
- 4. Meet LF (Lead Free) and HF (Halogen Free)
- 5. Flow soldering and welding are available. (Re-flow soldering is not available.)
- 6. If copper wire is necessary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



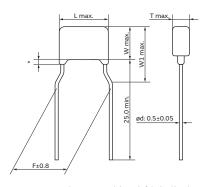




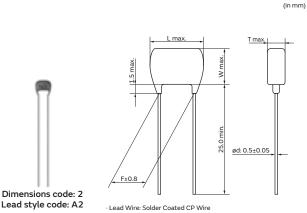
- Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire





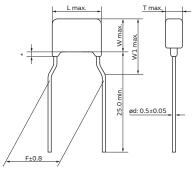


Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire



(in mm)



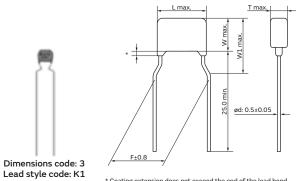


- Coating extension does not exceed the end of the lead bend.
- Lead Wire: Solder Coated CP Wire (in mm)

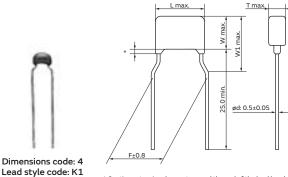
L max. ød: 0.5±0.05 Dimensions code: 3 Lead style code: A2 · Lead Wire: Solder Coated CP Wire

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(in mm)

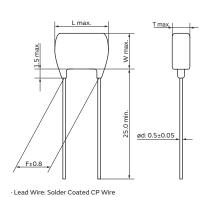


* Coating extension does not exceed the end of the lead bend. \cdot Lead Wire: Solder Coated CP Wire

(in mm)



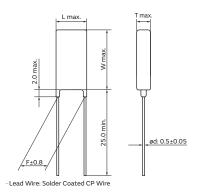
Dimensions code: 5 Lead style code: B1



(in mm)

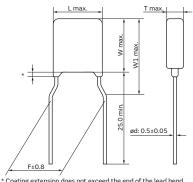


Dimensions code: U Lead style code: B1



(in mm)





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

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	-		2.5	0.5			
2K1/2M1	5.5	4.0	6.0	See the individual	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

Maiking												
Rated Voltage	DC25V		DC50V			DC100V		DC250V	DC630V	DC1kV		
Dimensions Char.	X7R	cog	X7S	X7R	COG	X7S	X7R	>	(7R, U2J, C0	G		
0			-			-		-	-	-		
1	224K	A 102J	[105K]	224K	A 102J	-	224K	(U2J) (U2J) (D2K) (X7R)	-	-		
								(U2J)	(U2J)	(U2J)		
2	(M _{K2C})	(M J5A)	(HK5C)	(MK5C)	(M) 103 J1A	-	(M105)	(X7R)	(X7R)	(X7R)		
								(C0G)	(COG)	(COG)		
3, 4, W	(M226 K2C	-	(M106) K5C	(мзз5 к5С	-	(M225 K1C	-	(U2J) (M224 K4C	(M103 J7U (U2J) (M104 K7C	(U2J) (M333 KAC		
5, U	-	-	-	-	-	-	-	(X7R) - (X7R) - (M) 474 K4C	(X7R) (X7R) (M) 3333 J7U (U2J) (W) 474 M7C	(X7R) (X7R) (D3 JAU (U2J) (U2J)		
Temperature Characteristics		Marked with code (COG char.: A, X7S/X7R char.: C, U2J char.: U) A part is omitted (Please refer to the marking example.)										
Nominal Capacitance	Under 100	DpF: 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: 7, DC1kV: A	A)				
Manufacturer's Identification	Marked w A part is o		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

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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
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	COG (EIA)	50Vdc	100pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H101J0 H03	COG (EIA)	50Vdc	100pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C1H121J0 H03	COG (EIA)	50Vdc	120pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C1H121J0 H03	COG (EIA)	50Vdc	120pF±5%	3.6×3.5	2.5	5.0	K1	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 M1
RCE5C1H561J0 H03 RCE5C1H681J0 H03	COG (EIA)	50Vdc 50Vdc	560pF±5%	3.6×3.5 3.6×3.5	2.5	5.0 2.5	K1 A2	M1 DB
RCE5C1H681J0 H03	COG (EIA)	50Vdc	680pF±5% 680pF±5%	3.6×3.5	2.5	5.0	K1	DB 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% 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
KCL3CIAIUZJU IIU3	COG (EIA)	Jovac	1000hL=2.20	J.U×3.3	2.5	2.5	AZ	DB

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
RCE5C1H102J0 H03	COG (EIA)	50Vdc	1000pF±5%	3.6×3.5	2.5	5.0	K1	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 M1
RCE5C1H273J2 H03 RCE5C1H333J2 H03	COG (EIA)	50Vdc 50Vdc	27000pF±5% 33000pF±5%	5.5×4.0 5.5×4.0	3.15 3.15	5.0 2.5	K1 A2	M1 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
RCE5C1H104J2 H03	COG (EIA)	50Vdc	0.1µF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C2A1R0C0 H03	COG (EIA)	100Vdc	1.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A1R0C0□□H03□	COG (EIA)	100Vdc	1.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A2R0C0□□H03□	COG (EIA)	100Vdc	2.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A2R0C0□□H03□	COG (EIA)	100Vdc	2.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A3R0C0 H03	COG (EIA)	100Vdc	3.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A3R0C0 H03	` '	100Vdc	3.0pF±0.25pF	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A4R0C0 H03	, ,	100Vdc	4.0pF±0.25pF	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A4R0C0 H03	COG (EIA)	100Vdc	4.0pF±0.25pF	3.6×3.5	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
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	47pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A560J0□□H03□	COG (EIA)	100Vdc	56pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A560J0□□H03□	COG (EIA)	100Vdc	56pF±5%	3.6×3.5	2.5	5.0	K1	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 M1
RCE5C2A391J0 H03	COG (EIA)	100Vdc 100Vdc	390pF±5% 470pF±5%	3.6×3.5	2.5	5.0 2.5	K1 A2	M1 DB
RCE5C2A471J0 H03 RCE5C2A471J0 H03	COG (EIA)	100Vdc	470pF±5% 470pF±5%	3.6×3.5 3.6×3.5	2.5	5.0	K1	M1
RCE5C2A471J0 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
	COG (LIA)	100 / 400	020pi ±376	J.U^J.J		2.5		

Continued from the preceding pa		Datad		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
RCE5C2A821J0 H03	COG (EIA)	100Vdc	820pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A102J0 H03	COG (EIA)	100Vdc	1000pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A102J0 H03	COG (EIA)	100Vdc	1000pF±5%	3.6×3.5	2.5	5.0	K1	M1
RCE5C2A122J0 H03	COG (EIA)	100Vdc	1200pF±5%	3.6×3.5	2.5	2.5	A2	DB
RCE5C2A122J0□□H03□	COG (EIA)	100Vdc	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	2200pF±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 RCE5C2E150J2 H03	COG (EIA)	250Vdc 250Vdc	12pF±5%	5.5×4.0 5.5×4.0	3.15	5.0 5.0	K1 K1	M1 M1
RCE5C2E180J2 H03	COG (EIA)	250Vdc	15pF±5% 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

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
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 RCE5C2J272J2 H03	COG (EIA)	630Vdc	2200pF±5%	5.5×4.0	3.15 3.15	5.0	K1	M1
RCE5C2J332J2 H03	COG (EIA)	630Vdc 630Vdc	2700pF±5% 3300pF±5%	5.5×4.0 5.5×4.0	3.15	5.0 5.0	K1 K1	M1 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	COG (EIA)	1000Vdc	82pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A101J2 H03	COG (EIA)	1000Vdc	100pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A121J2□□H03□	COG (EIA)	1000Vdc	120pF±5%	5.5×4.0	3.15	5.0	K1	M1
RCE5C3A151J2□□H03□	COG (EIA)	1000Vdc	150pF±5%	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	3.15	5.0	K1	M1

Continued from the preceding pa				Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Temp. Char.	Rated Voltage	Capacitance	LxW	T	F.	Code	Code
D05502427112000000			270=5.5%	(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	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	, ,	1000Vdc			3.15	5.0		M1
	U2J (EIA)		220pF±5%	5.5×4.0			K1	
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

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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
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.

	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
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) $\,$

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Continued from the preceding pa				Dimensions	Dimension	Lead Space	Lead Style	Lead Style
Part Number	Temp. Char.	Rated Voltage	Capacitance	LxW	T	F ·	Code	Code
			4700=5:100/	(mm)	(mm)	(mm)	Bulk	Taping
RCER71H472K0 H03	X7R (EIA)	50Vdc	4700pF±10%	3.6×3.5 3.6×3.5	2.5	5.0	K1	M1
RCER71H682K0 H03	X7R (EIA)	50Vdc	6800pF±10%		2.5	2.5	A2	DB
RCER71H682K0 H03	X7R (EIA)	50Vdc	6800pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H103K0 H03	X7R (EIA)	50Vdc	10000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H103K0 H03	X7R (EIA)	50Vdc	10000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H153K0 H03	X7R (EIA)	50Vdc	15000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H153K0 H03	X7R (EIA)	50Vdc	15000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H223K0□□H03□	X7R (EIA)	50Vdc	22000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H223K0□□H03□	X7R (EIA)	50Vdc	22000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H333K0 H03	X7R (EIA)	50Vdc	33000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H333K0□□H03□	X7R (EIA)	50Vdc	33000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H473K0 H03	X7R (EIA)	50Vdc	47000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H473K0 H03	X7R (EIA)	50Vdc	47000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H683K0 H03	X7R (EIA)	50Vdc	68000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H683K0□□H03□	X7R (EIA)	50Vdc	68000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H104K0□□H03□	X7R (EIA)	50Vdc	0.10µF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER71H104K0□□H03□	X7R (EIA)	50Vdc	0.10µF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER71H154K1□□H03□	X7R (EIA)	50Vdc	0.15µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71H154K1□□H03□	X7R (EIA)	50Vdc	0.15µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71H224K1□□H03□	X7R (EIA)	50Vdc	0.22µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71H224K1□□H03□	X7R (EIA)	50Vdc	0.22µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71H334K1□□H03□	X7R (EIA)	50Vdc	0.33µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71H334K1□□H03□	X7R (EIA)	50Vdc	0.33µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71H474K1□□H03□	X7R (EIA)	50Vdc	0.47µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER71H474K1□□H03□	X7R (EIA)	50Vdc	0.47µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71H684K2□□H03□	X7R (EIA)	50Vdc	0.68µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71H684K2□□H03□	X7R (EIA)	50Vdc	0.68µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCEC71H105K1 H03	X7S (EIA)	50Vdc	1.0µF±10%	4.0×3.5	2.5	2.5	A2	DB
RCEC71H105K1□□H03□	X7S (EIA)	50Vdc	1.0µF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER71H105K2□□H03□	X7R (EIA)	50Vdc	1.0µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71H105K2□□H03□	X7R (EIA)	50Vdc	1.0µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71H155K2□□H03□	X7R (EIA)	50Vdc	1.5µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71H155K2□□H03□	X7R (EIA)	50Vdc	1.5µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71H225K2□□H03□	X7R (EIA)	50Vdc	2.2µF±10%	5.5×4.0	3.15	2.5	A2	DB
RCER71H225K2□□H03□	X7R (EIA)	50Vdc	2.2µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER71H335K3□□H03□	X7R (EIA)	50Vdc	3.3µF±10%	5.5×5.0	4.0	2.5	A2	DB
RCER71H335K3□□H03□	X7R (EIA)	50Vdc	3.3µF±10%	5.5×5.0	4.0	5.0	K1	M1
RCEC71H475K2□□H03□	X7S (EIA)	50Vdc	4.7µF±10%	5.5×4.0	3.15	2.5	A2	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□□H03□	X7S (EIA)	50Vdc	10µF±10%	5.5×5.0	4.0	5.0	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
RCER72A221K0□□H03□	X7R (EIA)	100Vdc	220pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A221K0□□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
RCER72A152K0□□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
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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
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□	X7R (EIA)	100Vdc	22000pF±10%	3.6×3.5	2.5	2.5	A2	DB
RCER72A223K0□□H03□	X7R (EIA)	100Vdc	22000pF±10%	3.6×3.5	2.5	5.0	K1	M1
RCER72A333K1□□H03□	X7R (EIA)	100Vdc	33000pF±10%	4.0×3.5	2.5	2.5	A2	DB
RCER72A333K1□□H03□	X7R (EIA)	100Vdc	33000pF±10%	4.0×3.5	2.5	5.0	K1	M1
RCER72A473K1□□H03□	X7R (EIA)	100Vdc	47000pF±10%	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	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	33000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72E473K2 H03	X7R (EIA)	250Vdc	47000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72E683K2 H03	X7R (EIA)	250Vdc	68000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72E104K2 H03	X7R (EIA)	250Vdc	0.10µF±10%	5.5×4.0	3.15	5.0	K1	M1
RCER72E154K3 H03	X7R (EIA)	250Vdc	0.15µF±10%	5.5×5.0	4.0	5.0	K1	M1
RCER72E224K3 H03	X7R (EIA)	250Vdc	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	0.68µF±10%	7.5×7.5	4.0	5.0	B1	E1

Continued from the preceding page. \searrow

Part Number Char Voltage Capacitance LxW (mm) (mm) Bulk Taping RCER7ZE105K5 H03 X7R (EIA) 250Vdc 1.0µF±10% 7.5×7.5 4.0 5.0 B1 E1 E1 RCER7ZE105K5 H03 X7R (EIA) 630Vdc 2.2µF±20% 7.5×12.5 4.0 5.0 B1 E1 RCER7ZJ102K2 H03 X7R (EIA) 630Vdc 1500pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ2ZZK2 H03 X7R (EIA) 630Vdc 2200pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ3ZK2 H03 X7R (EIA) 630Vdc 2200pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ3ZK2 H03 X7R (EIA) 630Vdc 2200pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ3ZK2 H03 X7R (EIA) 630Vdc 3300pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ3ZK2 H03 X7R (EIA) 630Vdc 6800pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ105K2 H03 X7R (EIA) 630Vdc 6800pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ105K2 H03 X7R (EIA) 630Vdc 15000pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ153K2 H03 X7R (EIA) 630Vdc 15000pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ153K2 H03 X7R (EIA) 630Vdc 15000pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER7ZJ333K3 H03 X7R (EIA) 630Vdc 22000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER7ZJ333K3 H03 X7R (EIA) 630Vdc 33000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER7ZJ163K4 H03 X7R (EIA) 630Vdc 68000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER7ZJ163K4 H03 X7R (EIA) 630Vdc 6000pF±10% 7.5×5.5 4.0 5.0 K1 M1 RCER7ZJ24K5 H03 X7R (EIA) 630Vdc 6000pF±10% 7.5×6.0 4.0 5.0 B1 E1 RCER7ZJ224K5 H03 X7R (EIA) 630Vdc 0.10µF±10% 7.5×6.0 4.0 5.0 B1 E1 RCER7ZJ224K5 H03 X7R (EIA) 630Vdc 0.10µF±10% 7.5×6.0 4.0 5.0 B1 E1 RCER7ZJ224K5 H03 X7R (EIA) 630Vdc 0.10µF±10% 7.5×6.0 4.0 5.0 B1 E1 RCER7ZJ224K5 H03 X7R (EIA) 630Vdc 0.10µF±10% 7.5×6.0 4.0 5.0 B1 E1 RCER7ZJ3A32K2 H03 X7R (EIA) 1000Vdc 0.00pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A32	Continued from the preceding pa	continued from the preceding page. 3								
RCER721225MU□H03□ X7R (EIA) 250Vdc 2.2µF±20% 7.5×12.5 4.0 5.0 B1 E1	Part Number			Capacitance		Dimension T (mm)	Lead Space F (mm)			
RCER72J102K2	RCER72E105K5□□H03□	X7R (EIA)	250Vdc	1.0µF±10%	7.5×7.5	4.0	5.0	B1	E1	
RCER72J152K2	RCER72E225MU□□H03□	X7R (EIA)	250Vdc	2.2µF±20%	7.5×12.5	4.0	5.0	B1	E1	
RCER72J222K2□H03□	RCER72J102K2□□H03□	X7R (EIA)	630Vdc	1000pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER72J332K2□H03□	RCER72J152K2□□H03□	X7R (EIA)	630Vdc	1500pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER72J472K2□H03□ X7R (EIA) 630Vdc 4700F±10% 5.5×4.0 3.15 5.0 K1 M1 RCER72J682K2□H03□ X7R (EIA) 630Vdc 6800F±10% 5.5×4.0 3.15 5.0 K1 M1 RCER72J103K2□H03□ X7R (EIA) 630Vdc 10000F±10% 5.5×4.0 3.15 5.0 K1 M1 RCER72J103K2□H03□ X7R (EIA) 630Vdc 10000F±10% 5.5×4.0 3.15 5.0 K1 M1 RCER72J223K2□H03□ X7R (EIA) 630Vdc 120000F±10% 5.5×4.0 3.15 5.0 K1 M1 RCER72J233K3□H03□ X7R (EIA) 630Vdc 22000F±10% 5.5×5.0 4.0 5.0 K1 M1 RCER72J333K3□H03□ X7R (EIA) 630Vdc 47000P±10% 5.5×5.0 4.0 5.0 K1 M1 RCER72J683K4□H03□ X7R (EIA) 630Vdc 68000P±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 RCER72J104K4□H03□ X7R (EIA) 630Vdc 0.10µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER72J2478K3□H03□ X7R (EIA) 630Vdc 0.22µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER72J24478M□□H03□ X7R (EIA) 630Vdc 0.22µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER72J24478M□□H03□ X7R (EIA) 630Vdc 0.22µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER72J24478M□□H03□ X7R (EIA) 630Vdc 0.22µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER72J2474MM□□H03□ X7R (EIA) 630Vdc 0.22µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER73A102K2□H03□ X7R (EIA) 1000Vdc 1000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A332K2□H03□ X7R (EIA) 1000Vdc 1500P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A332K2□H03□ X7R (EIA) 1000Vdc 2200P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A472K2□H03□ X7R (EIA) 1000Vdc 3300P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A432K2□H03□ X7R (EIA) 1000Vdc 3300P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A432K2□H03□ X7R (EIA) 1000Vdc 3300P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438C2□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438C2□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438C2□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438C3□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438C3□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438K3□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A438K3□H03□ X7R (EIA) 1000Vdc 3000P±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A438K3□H03□ X7R (EIA) 1000Vdc 3000P±10% 7.5×5.5 4.0	RCER72J222K2□□H03□	X7R (EIA)	630Vdc	2200pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER72J682K2	RCER72J332K2 H03	X7R (EIA)	630Vdc	3300pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER72J103K2	RCER72J472K2□□H03□	X7R (EIA)	630Vdc	4700pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER72J153K2□H03□	RCER72J682K2□□H03□	X7R (EIA)	630Vdc	6800pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER72J223K2□H03□	RCER72J103K2□□H03□	X7R (EIA)	630Vdc	10000pF±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 4700pF±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) 630Vdc 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 RCER73A322K2□□H03□ X7R (EIA) 1000Vdc 2200pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A472K2□□H03□ X7R (EIA) 1000Vdc 3300pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A682K2□□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 RCER73A103K2□□H03□ X7R (EIA) 1000Vdc 10000pF±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 RCER73A103K2□□H03□ X7R (EIA) 1000Vdc 10000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A103K2□□H03□ X7R (EIA) 1000Vdc 10000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A223K3□□H03□ X7R (EIA) 1000Vdc 2000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A2333K4□□H03□ X7R (EIA) 1000Vdc 2000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A683K5□□H03□ X7R (EIA) 1000Vdc 6800pF±10% 7.5×5.5 4.0 5.0 K1 M1 RCER73A683K5□□H03□ X7R (EIA) 1000Vdc 68000pF±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□	RCER72J153K2□□H03□	X7R (EIA)	630Vdc	15000pF±10%	5.5×4.0	3.15	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 RCER72J24K5□H03□ X7R (EIA) 630Vdc 0.22µF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER73A102K2□H03□ X7R (EIA) 630Vdc 0.47µF±20% 7.7×13.0 4.0 5.0 B1 E1 RCER73A152K2□H03□ X7R (EIA) 1000Vdc 1500pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A332K2□H03□ X7R (EIA) 1000Vdc 2200pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A682K2□H03□ X7R (EIA) 1000Vdc 6800pF±1	RCER72J223K2□□H03□	X7R (EIA)	630Vdc	22000pF±10%	5.5×4.0	3.15	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 RCER72J2474MU□H03□ X7R (EIA) 630Vdc 0.47µF±20% 7.7×13.0 4.0 5.0 B1 E1 RCER73A102K2□H03□ X7R (EIA) 1000Vdc 1000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A152K2□H03□ X7R (EIA) 1000Vdc 1500P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A322ZK2□H03□ X7R (EIA) 1000Vdc 2200pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A472K2□H03□ X7R (EIA) 1000Vdc 3300pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A682K2□H03□ X7R (EIA) 1000Vdc 6800p	RCER72J333K3□□H03□	X7R (EIA)	630Vdc	33000pF±10%	5.5×5.0	4.0	5.0	K1	M1	
RCER72J104K4	RCER72J473K3□□H03□	X7R (EIA)	630Vdc	47000pF±10%	5.5×5.0	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 1000P±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A152K2□H03□ X7R (EIA) 1000Vdc 250P±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 RCER73A682K2□H03□ X7R (EIA) 1000Vdc 6800PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A153K3□H03□ X7R (EIA) 1000Vdc 5.5×4.0	RCER72J683K4□□H03□	X7R (EIA)	630Vdc	68000pF±10%	7.5×5.5	4.0	5.0	K1	M1	
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 2200pF±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 4700pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A472K2□H03□ X7R (EIA) 1000Vdc 6800pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A103K2□H03□ X7R (EIA) 1000Vdc 1000PF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A223K3□H03□H03□ X7R (EIA) 1000Vdc <t< th=""><th>RCER72J104K4□□H03□</th><th>X7R (EIA)</th><th>630Vdc</th><th>0.10µF±10%</th><th>7.5×5.5</th><th>4.0</th><th>5.0</th><th>K1</th><th>M1</th></t<>	RCER72J104K4□□H03□	X7R (EIA)	630Vdc	0.10µF±10%	7.5×5.5	4.0	5.0	K1	M1	
RCER72J474MU HO3 X7R (EIA) 630Vdc 0.47µF±20% 7.7×13.0 4.0 5.0 B1 E1 RCER73A102K2 HO3 X7R (EIA) 1000Vdc 1000PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A152K2 HO3 X7R (EIA) 1000Vdc 1500PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A222K2 HO3 X7R (EIA) 1000Vdc 2200PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A332K2 HO3 X7R (EIA) 1000Vdc 4700PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A682K2 HO3 X7R (EIA) 1000Vdc 6800PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A103K2 HO3 X7R (EIA) 1000Vdc 1000PF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A153K3 HO3 X7R (EIA) 1000Vdc 1000PF±10% 5.5×5.0 4.0 5.0 K1	RCER72J154K5□□H03□	X7R (EIA)	630Vdc	0.15µF±10%	7.5×8.0	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 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 6800pF±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 RCER73A473K4□H03□ X7R (EIA) 1000Vdc <th< th=""><th>RCER72J224K5□□H03□</th><th>X7R (EIA)</th><th>630Vdc</th><th>0.22µF±10%</th><th>7.5×8.0</th><th>4.0</th><th>5.0</th><th>B1</th><th>E1</th></th<>	RCER72J224K5□□H03□	X7R (EIA)	630Vdc	0.22µF±10%	7.5×8.0	4.0	5.0	B1	E1	
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 RCER73A333K4□□H03□ X7R (EIA) 1000Vdc 33000pF±10% 7.5×5.5 4.0 5.0 K1 M1 RCER73A683K5□□H03□ X7R (EIA) 1000Vdc	RCER72J474MU□□H03□	X7R (EIA)	630Vdc	0.47µF±20%	7.7×13.0	4.0	5.0	B1	E1	
RCER73A222K2	RCER73A102K2□□H03□	X7R (EIA)	1000Vdc	1000pF±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% 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 <th>RCER73A152K2□□H03□</th> <th>X7R (EIA)</th> <th>1000Vdc</th> <th>1500pF±10%</th> <th>5.5×4.0</th> <th>3.15</th> <th>5.0</th> <th>K1</th> <th>M1</th>	RCER73A152K2□□H03□	X7R (EIA)	1000Vdc	1500pF±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 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	RCER73A222K2□□H03□	X7R (EIA)	1000Vdc	2200pF±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 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	RCER73A332K2□□H03□	X7R (EIA)	1000Vdc	3300pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER73A103K2 HO3 X7R (EIA) 1000Vdc 10000pF±10% 5.5×4.0 3.15 5.0 K1 M1 RCER73A153K3 HO3 X7R (EIA) 1000Vdc 15000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A223K3 HO3 X7R (EIA) 1000Vdc 22000pF±10% 5.5×5.0 4.0 5.0 K1 M1 RCER73A333K4 HO3 X7R (EIA) 1000Vdc 33000pF±10% 7.5×5.5 4.0 5.0 K1 M1 RCER73A473K4 HO3 X7R (EIA) 1000Vdc 68000pF±10% 7.5×8.0 4.0 5.0 B1 E1 RCER73A104K5 HO3 X7R (EIA) 1000Vdc 0.10µF±10% 7.5×8.0 4.0 5.0 B1 E1	RCER73A472K2□□H03□	X7R (EIA)	1000Vdc	4700pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER73A153K3	RCER73A682K2□□H03□	X7R (EIA)	1000Vdc	6800pF±10%	5.5×4.0	3.15	5.0	K1	M1	
RCER73A223K3	RCER73A103K2 H03	X7R (EIA)	1000Vdc	10000pF±10%	5.5×4.0	3.15	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	RCER73A153K3□□H03□	X7R (EIA)	1000Vdc	15000pF±10%	5.5×5.0	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	RCER73A223K3□□H03□	X7R (EIA)	1000Vdc	22000pF±10%	5.5×5.0	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	RCER73A333K4□□H03□	X7R (EIA)	1000Vdc	33000pF±10%	7.5×5.5	4.0	5.0	K1	M1	
RCER73A104K5□□H03□ X7R (EIA) 1000Vdc 0.10μF±10% 7.5×8.0 4.0 5.0 B1 E1	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	
PCFP73A224MIII TH03T X7R (FIA) 1000Vdc 0.22uF+20% 7.7×13.0 4.0 5.0 P1 F1	RCER73A104K5□□H03□	X7R (EIA)	1000Vdc	0.10µF±10%	7.5×8.0	4.0	5.0	B1	E1	
7.17 (Lin) 1000 vac 0.22µ 120 v 1.17 13.0 4.0 3.0 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)

No.	AEC-Q200) Test Item	Specifications	AEC-Q200 Test Method				
1		ost-Stress	·	-				
	High Tem Exposure	perature (Storage)	The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities					
		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)					
	Temperat Cycling	cure	The measured and observed characteristics should satisfy the specifications in the following table.					
		Appearance	No defects or abnormalities	Perform the 1000 cycles according to the four heat treatments				
2		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	listed in the following table. Let sit for 24±2h at room condition*, then measure.				
3		Q	30pF ≤ C: Q ≥ 350 10pF ≤ C < 30pF: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C	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				
			C: Nominal Capacitance (pF)					
	I.R.		1000MΩ or 50MΩ • μF min. (Whichever is smaller)					
	Moisture Resistance	e	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. Humidity Humidity Humidity Humidity Humidity				
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	(°C) 90-98% 80-98% 90-98% 80-98% 90-98% 80-98% 90-98%				
4		Q	30pF ≤ C: Q ≥ 200 30pF > C: Q ≥ 100+10C/3	55 50 45 45 40 # 35				
		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 Hours				
	Biased Hu	ımidity	The measured and observed characteristics should satisfy the					
		Appearance	specifications in the following table. No defects or abnormalities					
		Capacitance Change	Within ±5% or ±0.5pF (Whichever is larger)	Apply the rated voltage and DC1.3+0.2/-0V (add $100k\Omega$ resistor) at 85 \pm 3°C and 80 to 85% humidity for $1000\pm12h$.				
5		Q	30pF ≤ C: Q ≥ 200 30pF > C: Q ≥ 100+10C/3	Remove and let sit for 24±2h at room condition*, then measure. The charge/discharge current is less than 50mA.				
			C: Nominal Capacitance (pF)					
		I.R.	500MΩ or 25MΩ • 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	Apply the voltage shown in the 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 condition*, then measure. The charge/discharge current is less than 50mA.				
6	30pF ≤ C: Q ≥ 350 10pF ≤ C < 30pF: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C		10pF ≤ C < 30pF: Q ≥ 275+5C/2 10pF > C: Q ≥ 200+10C	Rated Voltage Test Voltage				
	C: Nominal Capacitance (pF)		, , ,					
* "		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	Viscours OC to 100LPs				

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

Continued from the preceding page. \searrow

No-	AEC-Q200) Test Item	Specifications	AFC-0200 Test Method				
			· ·	AEC-Q200 Test Method				
7	External \		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 Solvent 1: 1 part (by volume) of isopropyl alcohol				
		Capacitance	Within the specified tolerance	3 parts (by volume) of mineral spirits				
10	Resistance to Solvents	Q	30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C	Solvent 2: Terpene defluxer Solvent 3: 42 parts (by volume) of water				
	to solvents			1 part (by volume) of propylene glycol				
			C: Nominal Capacitance (pF)	monomethyl ether 1 part (by volume) of monoethanolamine				
		I.R.	More than 10000MΩ or 500MΩ • μF (Whichever is smaller)	1 part (by volume) of monoethanolamine				
		Appearance	No defects or abnormalities	Three shocks in each direction should be applied along				
	Mechanical	Capacitance	Within the specified tolerance	3 mutually perpendicular axes of the test specimen (18 shocks).				
11	Shock		30pF ≤ C : Q ≥ 1000 30pF > C : Q ≥ 400+20C	The specified test pulse should be Half-sine and should have a duration: 0.5ms, peak value: 1500G and velocity change:				
		Q		4.7m/s.				
			C : Nominal Capacitance (pF)					
		Appearance	No defects or abnormalities	The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied				
		Capacitance	Within the specified tolerance	uniformly between the approximate limits of 10 and 2000Hz.				
12	Vibration		30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C	The frequency range, from 10 to 2000Hz and return to 10Hz, should be traversed in approximately 20min. This motion				
		Q		should be applied for 12 items in each 3 mutually perpendicular				
			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)		No defects or abnormalities	-				
13		Capacitance		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		Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Post-treatment				
		Dielectric		Capacitor should be stored for 24±2h at room condition*.				
		Strength (Between	No defects					
		Terminals)						
	Resistance		The measured and observed characteristics should satisfy the					
	Soldering F (On-Preheat)		specifications in the following table.	-				
13		Appearance	No defects or abnormalities	First the capacitor should be stored at 120+0/-5°C for 60+0/ Then, the lead wires should be immersed in the melted solder				
1		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s.				
2		Dielectric		Post-treatment Capacitor should be stored for 24±2h at room condition*.				
		Strength	No defects	'				
		(Between Terminals)						
	Resistance	to	The measured and observed characteristics should satisfy the					
	Soldering F (soldering	leat	specifications in the following table.	Test condition				
13	iron method)	Appearance	No defects or abnormalities	Temperature of iron-tip: 350±10°C Soldering time: 3.5±0.5s				
13		Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Soldering position				
3		Dielectric		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.				
		Strength	No defects	Post-treatment				
		(Between Terminals)	The defects	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.					
		Appearance	No defects or abnormalities	Perform the 300 cycles according to the two heat treatments				
	Change	Capacitance	Within ±5% or ±0.5pF (Whichever is larger)	listed in the following table (Maximum transfer time is 20s).				
14		Change	, , , , , , , , , , , , , , , , , , , ,	Let sit for 24±2h at room condition*, then measure.				
			30pF ≤ C: Q ≥ 350 10pF ≤ C < 30p: Q ≥ 275+5C/2	Step 1 2 Temp. (°C) -55+0/-3 125+3/-0				
		Q	10pF > C: Q ≥ 200+10C	Time (min) 15±3 15±3				
			C: Nominal Capacitance (pF)					
		I.R.	1000MΩ or 50MΩ • μF min. (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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No.	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 10000MΩ or 500MΩ	ı μF (Whichever is smaller)				
16	16 Solderability		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 frequency and voltage shown			
		Q	30pF ≤ C: Q ≥ 1000 30pF > C: Q ≥ 400+20C		Nominal Cap. Free	uency Voltage .1MHz AC0.5 to 5V (r.m.s.)		
			C: Nominal Capacitance (pF)			.1kHz AC1±0.2V (r.m.s.)		
		I.R.	Between Terminals	10000MΩ or 500MΩ • μF min. (Whichever is smaller)	The insulation resistance shou voltage shown in the table at of charging. Rated Voltage DC25V, DC50V, DC100V, D DC630V, DC1kV	25°C within 2min Measuring Voltage		
17	Electrical Charac- terization		Between Terminals	No defects or abnormalities	The capacitor should not be dishown in the table is applied b for 1 to 5s. (Charge/Discharge current ≤ 5 Rated Voltage DC50V, DC100V DC250V DC630V DC1kV	etween the terminations		
			Strength		No defects or abnormalities	diameter so that each termina approximately 2mm from the	balls, and DC voltage shown in 5s between capacitor terminals	
18	Terminal Strength			r loosened	until reaching 10N and then ke 10±1s.	adial direction of the capacitor		
		Bending Strength	Termination not to be broken or	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			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		as a reference. When cycling from step 1 through 5 (-55 to d 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	ost-Stress 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			
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 $1000M\Omega$ or $50M\Omega$ • μF (Whichever is smaller)				
	Temperat Cycling	ture	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 Resistanc	e	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*.			
		I.R. 500MΩ or 25MΩ • μF min. (Whichever is smaller)		Humidity Humidity Humidity Humidity (°C) 90-98% 80-98% 90-98% 90-98%			
4				0 1 2 3 4 5 6 7 8 9 101112131415161718192021222324 Hours			
	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 $100k\Omega$ 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.	500M Ω or 25M Ω • μF min. (Whichever is smaller)				

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

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No. AE	C-Q200	Test Item	Specifications	AEC-Q200 Test Method	d			
Oį	peration	al Life	The measured and observed characteristics should satisfy the specifications in the following table.	Apply the voltage shown in the table for 100 Let sit for 24±2h at room condition*, then n				
		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.	1000Μ Ω or 50Μ Ω • μ F min. (Whichever is smaller)	DC250V 150% of th DC630V 120% of th	e rated voltage *1 e rated voltage e rated voltage e rated voltage			
7 Ex	xternal V	isual/	No defects or abnormalities	Visual inspection				
8 Ph	hysical D	imension	Within the specified dimensions	Using calipers and micrometers				
9 M	larking		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				
Po	esistance	D.F.	0.025 max.	3 parts (by volume) of mineral s Solvent 2: Terpene defluxer	pirits			
10	Solvents	I.R.	Rated Voltage: DC25V, DC50V, DC100V More than $10000M\Omega$ or $500M\Omega \cdot \mu F$ (Whichever is smaller) Rated Voltage: DC250V, DC500V, DC630V, DC1kV More than $10000M\Omega$ or $100M\Omega \cdot \mu F$ (Whichever is smaller)	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				
		Appearance	No defects or abnormalities	Three shocks in each direction should be ap	plied along			
11 Me	echanical	Capacitance	Within the specified tolerance	3 mutually perpendicular axes of the test sp The specified test pulse should be Half-sine				
Sh	D.F. 0.025 max.		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 freq uniformly between the approximate limits o				
12 Vi	ibration	D.F.	0.025 max.	The frequency range, from 10 to 2000Hz ar should be traversed in approximately 20mir be applied for 12 items in each 3 mutually p directions (total of 36 times).	nd return to 10Hz, n. This motion should			
	esistance oldering H		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				
(No	on-Preheat)	Appearance	No defects or abnormalities	2.0mm from the root of terminal at 260±5°				
13		Capacitance Change	Within ±7.5%	Pre-treatment Capacitor should be stored at 150+0/-10 ^o at room temperature for 24+2h before init	•			
1		Dielectric Strength (Between Terminals)	No defects	at room temperature for 24±2h before initial measurement. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
	esistance oldering H		The measured and observed characteristics should satisfy the specifications in the following table.	First the capacitor should be stored at 120-	-0/-5°C for 60+0/-5s			
(Or	n-Preheat) [Appearance	No defects or abnormalities	Then, the lead wires should be immersed in				
13		Capacitance Change	Within ±7.5%	to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s. Pre-treatment Capacitor should be stored at 150+0/-10°C for 1h, then place room temperature for 24±2h before initial measurement. Post-treatment Capacitor should be stored for 24±2h at room condition*.				
2		Dielectric Strength (Between Terminals)	No defects					

 $[\]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.	AEC-Q200	Test Item		Specifications	AEC-Q200 Test Method		
	Resistance Soldering F		The measured and ob specifications in the f	served characteristics should satisfy the ollowing table.	Test condition Temperature of iron-tip: 350±10°C		
	(Soldering Iron Method)	Appearance	No defects or abnorm	nalities	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.		
13		Capacitance Change	Within ±7.5%				
3		Dielectric Strength (Between Terminals)	No defects		Pre-treatment 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.	Perform the 300 cycles according to the two heat treatments listed in the following table (Maximum transfer time is 20s).		
		Appearance	No defects or abnorm	nalities	Let sit for 24±2h at room condition*, then measure.		
14		Capacitance Change	Within ±12.5%		Step 1 2 Temp. (°C) -55+0/-3 125+3/-0 Time (min) 15±3 15±3		
		D.F.	0.05 max.				
		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			
		Capacitance	Within the specified t	olerance			
15	ESD	D.F.	0.025 max.		Per AEC-Q200-002		
13		I.R.	Rated Voltage: DC25	V, DC50V, DC100V Ω or 500MΩ • μF (Whichever is smaller) 0V, DC500V, DC630V, DC1kV Ω or 100MΩ • μF (Whichever is smaller)	TEL ALC Q200 002		
16	6 Solderability			oldered with uniform coating on the axial fthe circumferential direction.	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 abnorm	nalities	Visual inspection		
		Capacitance	Within the specified t	olerance	The capacitance/D.F. should be measured at 25°C at the frequency and voltage shown in the table.		
		D.F.	0.025 max.		Nominal Cap. Frequency Voltage C ≤ 10μF 1±0.1kHz AC1.0±0.2V (r.m.s.) C > 10μF 120±24kHz AC0.5±0.1V (r.m.s.)		
		I.R.	Between Terminals	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)	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 Test Voltage DC25V, DC50V, DC100V 250% of the rated voltage DC250V 200% of the rated voltage DC630V 150% of the rated voltage DC1kV 120% of the rated voltage		
		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, and 250% of the rated 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		

^{* &}quot;room condition" 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	: 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 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 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	
	Characteristics			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.		

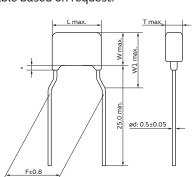
 $^{{\}rm *`"room\ condition"}\ \ {\rm Temperature:15\ to\ 35°C,Relative\ humidity:45\ to\ 75\%,Atmosphere\ pressure:86\ to\ 106kPa}$

150°C Operation Leaded MLCC for Automotive

■ RHE Series (DC25V-DC100V)

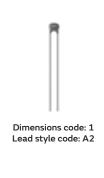
Features

- 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.



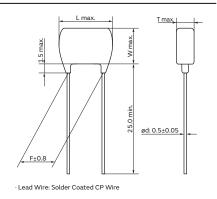


- Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire

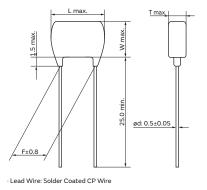


Dimensions code: 0

Lead style code: A2

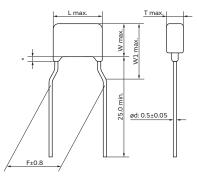


(in mm)



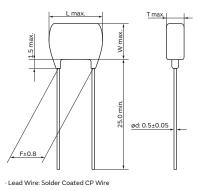


Dimensions code: 1 Lead style code: K1

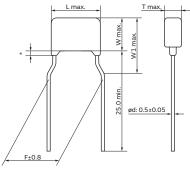


- * Coating extension does not exceed the end of the lead bend · Lead Wire: Solder Coated CP Wire
- (in mm)



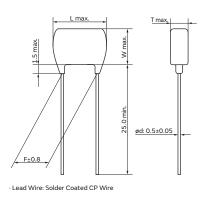






- * Coating extension does not exceed the end of the lead bend Lead Wire: Solder Coated CP Wire

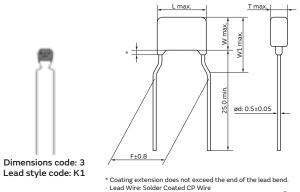


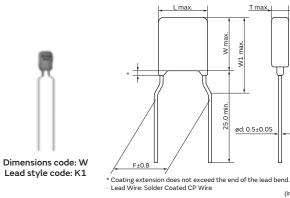


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Dimensions

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

riaikiiig						
Туре	Temperature Compensating Type	High Dielectric	Constant Type			
Rated Voltage	DC50V, DC100V	DC25V, DC50V	DC100V			
Dimensions Code Temp. Char.	X8G	X	3L			
0	8 102J	8 104K	(8 103K			
1	\1023	104K	\103K			
2	_	(M 105 K58	(M 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.)				

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	` ′	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	, ,	50Vdc	2200pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H272J0 H03	, ,	50Vdc	2700pF±5%	3.6×3.5	2.5	2.5	A2	DB M1
RHE5G1H272J0 H03	` ′	50Vdc	2700pF±5%	3.6×3.5	2.5	5.0	K1	M1 DB
RHE5G1H332J0 H03 RHE5G1H332J0 H03	X8G (Murata)	50Vdc 50Vdc	3300pF±5%	3.6×3.5	2.5	5.0	A2 K1	M1
RHE5G1H392J0 H03	X8G (Murata)	50Vdc	3300pF±5% 3900pF±5%	3.6×3.5 3.6×3.5	2.5	2.5	A2	DB
RHE5G1H392J0 H03	` ′	50Vdc	3900pF±5%	3.6×3.5	2.5	5.0	K1	M1
RHE5G1H472J1 H03	` '	50Vdc	4700pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H472J1 H03	, ,	50Vdc	4700pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H562J1 H03	, ,	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	` '	50Vdc	6800pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H822J1 H03	` '	50Vdc	8200pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H822J1 H03	, ,	50Vdc	8200pF±5%	4.0×3.5	2.5	5.0	K1	M1
RHE5G1H103J1 H03	` '	50Vdc	10000pF±5%	4.0×3.5	2.5	2.5	A2	DB
RHE5G1H103J1 H03	` `	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
	1 (1			2.0	2.0	2.0		

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Part Number	Temp. Char.	Rated Voltage	Capacitance	Dimensions LxW	Dimension T	Lead Space F	Lead Style Code Bulk	Lead Style Code
RHE5G2A151J0 H03	X8G (Murata)	100Vdc	150pF±5%	(mm) 3.6×3.5	(mm) 2.5	(mm) 5.0	K1	Taping 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	
RHEL81H103K0 H03	X8L (Murata)	50Vdc	10000pF±10%	3.6×3.5	2.5	5.0	K1	M1	
RHEL81H153K0□□H03□	X8L (Murata)	50Vdc	15000pF±10%	3.6×3.5	2.5	2.5	A2	DB	
RHEL81H153K0□□H03□	X8L (Murata)	50Vdc	15000pF±10%	3.6×3.5	2.5	5.0	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 M1	
RHEL81H334K1 H03	X8L (Murata)	50Vdc	0.33µF±10%	4.0×3.5	2.5	5.0	K1	M1	
RHEL81H474K2 HO3	X8L (Murata)	50Vdc	0.47µF±10%	5.5×4.0	3.15	2.5	A2	DB M1	
RHEL81H474K2 H03	X8L (Murata)	50Vdc 50Vdc	0.47µF±10%	5.5×4.0 5.5×4.0	3.15 3.15	5.0 2.5	K1 A2	M1 DB	
RHEL81H684K2 H03 RHEL81H684K2 H03	X8L (Murata) X8L (Murata)	50Vdc	0.68µF±10% 0.68µF±10%	5.5×4.0 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% 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	
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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	
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□	L82A222K0 □□ H03 □ X8L (Murata) 100Vdc 2		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	cation				
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 room condition*, then measure.			
2		Capacitance Change	Within ±3% or ±0.3pF (Whichever is larger)	Within ±12.5%	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 $1000 \text{M}\Omega$ or $50 \text{M}\Omega$ • μ	uF (Whichever is smaller)				
	Temperature Cycling		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 Resistance	:e	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 ±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% 80-98% 90-98% 70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
4	I.R.		500MΩ or 25MΩ • μF min. (Whichever is smaller)		65 66 67 58 40 40 40 40 40 40 40 40 40 40			
	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. (Whice	chever is smaller)	then let sit for 24±2h at room condition*. (for Char. X8L)			
	Operational Life		The measured and observed characteristics should satisfy the specifications in the following table.		Apply 150% of the rated voltage for 1000±12h at 150±3°C.			
		Appearance	No defects or abnormalities except color change of outer coating		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			

^{* &}quot;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				
10.	AEC-Q200	Test Item	Temperature Compensating Type (Char. X8G)	High Dielectric Constant Type (Char. X8L)	AEC-Q200 Test Method			
		Appearance	No defects or abnormalities		Per MIL-STD-202 Method 215			
10		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			
LO	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			
.1	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	Q/D.F.	Q ≧ 1000	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 perpendicular directions (total of 36 times).			
13 ' 1	Resistance		The measured and observed cha	•				
	Soldering Heat (Non-Preheat) Appearance		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 $260\pm5^{\circ}$ C for $10\pm1s$.			
		Capacitance	Within ±2.5% or ±0.25pF		Pre-treatment			
		Change Dielectric	(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)			
		Strength (Between Terminals)	No defects		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/-5 Then, the lead wires should be immersed in the melted solder 1			
	(On-Preheat)	Appearance	No defects or abnormalities		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			
-		Dielectric Strength (Between Terminals)	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)	Annearance No detects or apportmatities			Soldering time: 3.5±0.5s. Soldering position			
13	illoin lealed)	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 pla 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 S	Shock	The measured and observed chaspecifications in the following to	'	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) 15,2 15,2			
		Q/D.F.	Q ≧ 350	0.05 max.				
		I.R.	1000MΩ or 50MΩ • μF min. (Wh	nichever is smaller)	 •Pretreatment Perform the heat treatment at 150+0/-10°C for 60±5min an then let sit for 24±2h at room condition*. (for Char. X8L) 			
		Appearance	No defects or abnormalities		Per AEC-Q200-002			
		Capacitance	Within the specified tolerance					
15	ESD -	0/05	0 > 1000	0.035				
		Q/D.F.	Q ≧ 1000	0.025 max.				

 $^{^{\}star}$ "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.										
				Specif							
No.	AEC-Q200) Test Item	remperature co	mpensating Type . X8G)	High Dielectric Constant Type (Char. X8L)	AEC-Q200 Test Method					
16	Solderabi	lity	Lead wire should be soldered with direction over 95% of the circumfe			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	e No defects or abnormalities			Visual inspection	—				
		Capacitance		/ithin the specified tolerance		The capacitance, Q/D.F. should be measured at 25°C at the					
		Q/D.F.	Q ≥ 1000		0.025 max.		-				
		Insulation Resistance	Room Temperature	10000MΩ or 5 (Whichever is s	00MΩ • μF min. smaller)	The insulation resistance should be measured at 25±3°C with DC voltage not exceeding the rated voltage at normal temperature and humidity and within 2min of charging. (Charge/Discharge current ≤ 50mA.)	n a				
17	Electrical Charac-	(I.R.)	High Temperature	100MΩ or 5MΩ (Whichever is s	•	The insulation resistance should be measured at 150±3°C w a DC voltage not exceeding the rated voltage at normal temperature and humidity and within 2min of charging. (Charge/Discharge current ≦ 50mA.)					
	terization		Between Terminals	No defects or a	abnormalities	The capacitor should not be damaged when DC voltage of 300% of the rated voltage (for Char. X8G) or DC voltage of 250% of the rated voltage (for Char. X8L) is applied between the terminations for 1 to 5s. (Charge/Discharge current ≤ 50mA.)	1				
		Dielectric Strength	Body Insulation	No defects or a	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 250% of the rated DC voltage is impressed for 1 to 5s between capacitor terminals and metal balls. (Charge/Discharge current ≤ 50mA.)					
18	Terminal	Tensile Strength	Termination no	t to be broken or	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.					
	Strength	Bending Strength	Termination no	t to be broken or	r loosened	Each lead wire should be subjected to a force of 2.5N and the 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.					
19	Temperat	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)	5 25±2	1					

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



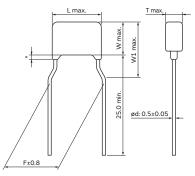
175°C/200°C Operation Leaded MLCC for Automotive

RHS Series (DC100V-DC500V)

Features

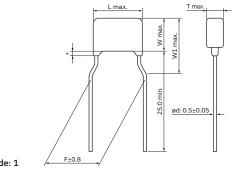
- 1. Small size and large capacitance
- 2. Low ESR and ESL suitable for high frequency
- 3. Applied maximum temperature up to 175°C or 200°C Note: Maximum accumulative time is within 2000 hours.
- 4. Meet AEC-Q200, ISO7637-2 (surge test) requirement
- 5. Meet LF (Lead Free) and HF (Halogen Free)
- 6. 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.

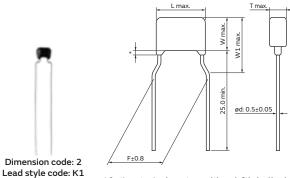
Lead Wire: Solder Coated CP Wire (in mm)



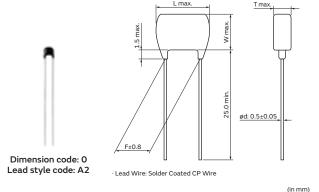
Dimension code: 1 Lead style code: K1

- * Coating extension does not exceed the end of the lead bend.

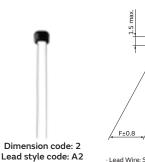
 Lead Wire: Solder Coated CP Wire

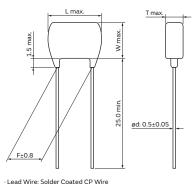


- * Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire



ød: 0.5±0.05 Dimension code: 1 Lead style code: A2 · Lead Wire: Solder Coated CP Wire





(in mm)

Dimensions

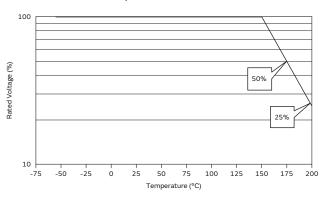
Dimensions and	Dimensions (mm)						
Lead Style Code	L	W	W1	Т	F	d	
0A2/0DG	3.8	3.5	-		2.5	0.5	
0K1/0M2	3.8	3.5	6.0		5.0	0.5	
1A2/1DG	4.0	3.5	-	See the individual	2.5	0.5	
1K1/1M2	4.0	3.5	5.0	product specification	5.0	0.5	
2A2/2DG	5.5	4.0	-		2.5	0.5	
2K1/2M1	5.5	4.0	6.0		5.0	0.5	

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

200°C: Temp. Char. CCG and UNJ 175°C: Temp. Char. XAL and XAN



Marking

Rated Voltage		DC100V		DC200V	DC500V			
Dimension Code Temp. Char.	CCG XAL XAN		XAN	UNJ				
0	4	6 103K	(9)	_	_			
1		_	103K	(2 101J)	_			
2	_	_	© 224 K19	(M103) J62	(M 101) J92			
Temperature Characteristics	Marked with code (Co	CG Char.: 4, UNJ Char.:	: 2, XAL Char.: 6, XAN	Char.: 9)				
Nominal Capacitance	Marked with 3 figures	5						
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 Marked with A part is omitted (Please refer 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%	3.8×3.5	2.5	2.5	A2	DG
RHS7G2A101J0 H01	CCG (Murata)	100Vdc	100pF±5%	3.8×3.5	2.5	5.0	K1	M2
RHS7G2A121J0 H01	CCG (Murata)	100Vdc	120pF±5%	3.8×3.5	2.5	2.5	A2	DG
RHS7G2A121J0 H01	CCG (Murata)	100Vdc	120pF±5%	3.8×3.5	2.5	5.0	K1	M2
RHS7G2A151J0 H01	CCG (Murata)	100Vdc	150pF±5%	3.8×3.5	2.5	2.5	A2	DG
RHS7G2A151J0 H01	CCG (Murata)	100Vdc	150pF±5%	3.8×3.5	2.5	5.0	K1	M2
RHS7G2A181J0 H01	CCG (Murata)	100Vdc	180pF±5%	3.8×3.5	2.5	2.5	A2	DG
RHS7G2A181J0 H01	CCG (Murata)	100Vdc	180pF±5%	3.8×3.5	2.5	5.0	K1	M2
RHS7G2A221J0 H01	CCG (Murata)	100Vdc	220pF±5%	3.8×3.5	2.5	2.5	A2	DG
RHS7G2A221J0 H01	CCG (Murata)	100Vdc	220pF±5%	3.8×3.5	2.5	5.0	K1	M2
RHS7G2A271J0 H01	CCG (Murata)	100Vdc	270pF±5%	3.8×3.5	2.5	2.5	A2	DG
RHS7G2A271J0 H01	CCG (Murata)	100Vdc	270pF±5%	3.8×3.5	2.5	5.0	K1	M2

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		
RHS7G2A331J0 H01	CCG (Murata)	100Vdc	330pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A331J0□□H01□	CCG (Murata)	100Vdc	330pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A391J0□□H01□	CCG (Murata)	100Vdc	390pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A391J0□□H01□	CCG (Murata)	100Vdc	390pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A471J0□□H01□	CCG (Murata)	100Vdc	470pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A471J0 H01	CCG (Murata)	100Vdc	470pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A561J0 H01	CCG (Murata)	100Vdc	560pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A561J0 H01	CCG (Murata)	100Vdc	560pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A681J0 H01	CCG (Murata)	100Vdc	680pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A681J0 H01	CCG (Murata)	100Vdc	680pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A821J0 H01	CCG (Murata)	100Vdc	820pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A821J0 H01	CCG (Murata)	100Vdc	820pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A102J0 H01	CCG (Murata)	100Vdc	1000pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A102J0 H01	CCG (Murata)	100Vdc	1000pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A152J0 H01	CCG (Murata)	100Vdc	1500pF±5%	3.8×3.5	2.5	2.5	A2	DG		
RHS7G2A152J0 H01	CCG (Murata)	100Vdc	1500pF±5% 1500pF±5%	3.8×3.5	2.5	5.0	K1	M2		
RHS7G2A222J1 H01	CCG (Murata)	100Vdc	2200pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7G2A222J1 H01	CCG (Murata)	100Vdc	2200pF±5% 2200pF±5%	4.0×3.5 4.0×3.5	2.5	5.0	K1	M2		
RHS7G2A2ZZJ1 H01 RHS7G2A2ZZJ1 H01	CCG (Murata)	100Vdc	2700pF±5%	4.0×3.5 4.0×3.5	2.5	2.5	A2	DG		
RHS7G2A272J1 H01	CCG (Murata)	100Vdc	2700pF±5% 2700pF±5%	4.0×3.5 4.0×3.5	2.5	5.0	K1	M2		
RHS7G2A272J1 H01 RHS7G2A332J1 H01	CCG (Murata)	100Vdc	3300pF±5%	4.0×3.5 4.0×3.5	2.5	2.5	A2	DG		
	·	100Vdc	•	4.0×3.5 4.0×3.5	2.5	5.0	K1	M2		
RHS7G2A332J1 H01	CCG (Murata)		3300pF±5%							
RHS7J2D101J1 H01	UNJ (Murata)	200Vdc	100pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D101J1 H01	UNJ (Murata)	200Vdc	100pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D151J1 H01	UNJ (Murata)	200Vdc	150pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D151J1 H01	UNJ (Murata)	200Vdc 200Vdc	150pF±5%	4.0×3.5 4.0×3.5	2.5	5.0 2.5	K1 A2	M2 DG		
RHS7J2D221J1 H01	UNJ (Murata)	200Vdc	220pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D221J1 H01 RHS7J2D331J1 H01	UNJ (Murata) UNJ (Murata)	200Vdc	220pF±5% 330pF±5%	4.0×3.5 4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D331J1 H01	UNJ (Murata)	200Vdc	330pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D331J1 H01	UNJ (Murata)	200Vdc	470pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D471J1	UNJ (Murata)	200Vdc	470pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D681J1 H01	UNJ (Murata)	200Vdc	680pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D681J1 H01	UNJ (Murata)	200Vdc	680pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D102J1 H01	UNJ (Murata)	200Vdc	1000pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D102J1 H01	UNJ (Murata)	200Vdc	1000pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D152J1 H01	UNJ (Murata)	200Vdc	1500pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D152J1 H01	UNJ (Murata)	200Vdc	1500pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D222J1 H01	UNJ (Murata)	200Vdc	2200pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D222J1 H01	UNJ (Murata)	200Vdc	2200pF±5% 2200pF±5%	4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D332J1 H01	UNJ (Murata)	200Vdc	3300pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D332J1 H01 RHS7J2D332J1 H01	UNJ (Murata)	200Vdc	3300pF±5% 3300pF±5%	4.0×3.5 4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D332J1 H01	UNJ (Murata)	200Vdc	4700pF±5%	4.0×3.5	2.5	2.5	A2	DG		
RHS7J2D472J1 H01	UNJ (Murata)	200Vdc	4700pF±5% 4700pF±5%	4.0×3.5 4.0×3.5	2.5	5.0	K1	M2		
RHS7J2D682J2 H01	UNJ (Murata)	200Vdc	6800pF±5%	5.5×4.0	3.15	2.5	A2	DG		
RHS7J2D682J2 H01	UNJ (Murata)	200Vdc	6800pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M2		
		200Vdc	10000pF±5%	5.5×4.0	3.15	2.5	A2			
RHS7J2D103J2 H01	UNJ (Murata)	200Vdc	-			5.0		DG M2		
RHS7J2D103J2 H01	UNJ (Murata)	500Vdc	10000pF±5%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1	M2		
RHS7J2H101J2 H01	UNJ (Murata)	500Vdc	100pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M2		
RHS7J2H151J2 H01 RHS7J2H221J2 H01	UNJ (Murata) UNJ (Murata)	500Vdc	150pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M2		
RHS7J2H331J2 H01	UNJ (Murata)	500Vdc	220pF±5%	5.5×4.0 5.5×4.0		5.0	K1	M2		
RHS7J2H331J2 H01 RHS7J2H471J2 H01	UNJ (Murata)	500Vdc	330pF±5% 470pF±5%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1	M2		
RHS7J2H471J2 H01 RHS7J2H681J2 H01	UNJ (Murata)	500Vdc	680pF±5%		3.15	5.0		M2		
RHS7J2H681J2 H01	UNJ (Murata)	500Vdc	1000pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1 K1	M2		
RHS7J2H152J2 H01	UNJ (Murata)	500Vdc	1500pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M2		
	UNJ (Murata)	500Vdc	-			5.0		M2		
RHS7J2H222J2 H01	ויותופופ)	200 400	2200pF±5%	5.5×4.0	3.15	5.0	K1	1*12		

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
RHS7J2H332J2□□H01□	UNJ (Murata)	500Vdc	3300pF±5%	5.5×4.0	3.15	5.0	K1	M2
RHS7J2H472J2 H01	UNJ (Murata)	500Vdc	4700pF±5%	5.5×4.0	3.15	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)

■ High Dielectric Constant Type, XAL/XAN 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
RHSL12A472K0□□H01□	XAL (Murata)	100Vdc	4700pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A472K0□□H01□	XAL (Murata)	100Vdc	4700pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A682K0□□H01□	XAL (Murata)	100Vdc	6800pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A682K0□□H01□	XAL (Murata)	100Vdc	6800pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A103K0□□H01□	XAL (Murata)	100Vdc	10000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A103K0□□H01□	XAL (Murata)	100Vdc	10000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A153K0□□H01□	XAL (Murata)	100Vdc	15000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A153K0□□H01□	XAL (Murata)	100Vdc	15000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A223K0□□H01□	XAL (Murata)	100Vdc	22000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A223K0□□H01□	XAL (Murata)	100Vdc	22000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A333K0□□H01□	XAL (Murata)	100Vdc	33000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A333K0□□H01□	XAL (Murata)	100Vdc	33000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A473K0□□H01□	XAL (Murata)	100Vdc	47000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A473K0□□H01□	XAL (Murata)	100Vdc	47000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A683K0□□H01□	XAL (Murata)	100Vdc	68000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A683K0□□H01□	XAL (Murata)	100Vdc	68000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSL12A104K0□□H01□	XAL (Murata)	100Vdc	0.1µF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSL12A104K0□□H01□	XAL (Murata)	100Vdc	0.1µF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSN12A472K0□□H01□	XAN (Murata)	100Vdc	4700pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSN12A472K0□□H01□	XAN (Murata)	100Vdc	4700pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSN12A682K0□□H01□	XAN (Murata)	100Vdc	6800pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSN12A682K0□□H01□	XAN (Murata)	100Vdc	6800pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSN12A103K0□□H01□	XAN (Murata)	100Vdc	10000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSN12A103K0□□H01□	XAN (Murata)	100Vdc	10000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSN12A153K0□□H01□	XAN (Murata)	100Vdc	15000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSN12A153K0□□H01□	XAN (Murata)	100Vdc	15000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSN12A223K0□□H01□	XAN (Murata)	100Vdc	22000pF±10%	3.8×3.5	2.5	2.5	A2	DG
RHSN12A223K0□□H01□	XAN (Murata)	100Vdc	22000pF±10%	3.8×3.5	2.5	5.0	K1	M2
RHSN12A333K1□□H01□	XAN (Murata)	100Vdc	33000pF±10%	4.0×3.5	2.5	2.5	A2	DG
RHSN12A333K1□□H01□	XAN (Murata)	100Vdc	33000pF±10%	4.0×3.5	2.5	5.0	K1	M2
RHSN12A473K1□□H01□	XAN (Murata)	100Vdc	47000pF±10%	4.0×3.5	2.5	2.5	A2	DG
RHSN12A473K1□□H01□	XAN (Murata)	100Vdc	47000pF±10%	4.0×3.5	2.5	5.0	K1	M2
RHSN12A683K1□□H01□	XAN (Murata)	100Vdc	68000pF±10%	4.0×3.5	2.5	2.5	A2	DG
RHSN12A683K1□□H01□	XAN (Murata)	100Vdc	68000pF±10%	4.0×3.5	2.5	5.0	K1	M2
RHSN12A104K1□□H01□	XAN (Murata)	100Vdc	0.1µF±10%	4.0×3.5	2.5	2.5	A2	DG
RHSN12A104K1□□H01□	XAN (Murata)	100Vdc	0.1µF±10%	4.0×3.5	2.5	5.0	K1	M2
RHSN12A154K2□□H01□	XAN (Murata)	100Vdc	0.15µF±10%	5.5×4.0	3.15	2.5	A2	DG
RHSN12A154K2□□H01□	XAN (Murata)	100Vdc	0.15µF±10%	5.5×4.0	3.15	5.0	K1	M2
RHSN12A224K2□□H01□	XAN (Murata)	100Vdc	0.22µF±10%	5.5×4.0	3.15	2.5	A2	DG
RHSN12A224K2□□H01□	XAN (Murata)	100Vdc	0.22µF±10%	5.5×4.0	3.15	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 P	ost-Stress Test		-				
	High	Appearance	No defects or abnormalities except color change of outer coating					
2	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 room condition*, then measure.				
	(Storage)	Q	Q ≧ 350					
		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. Step 1 2 3 4				
		Q	Q ≧ 350	Temp. (°C) -55+0/-3 Room Temp. 125+3/-0 Room Temp.				
		I.R.	1000MΩ min.					
		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 (°C) 90-98% 80-98% 90-98% 80-98% 90-98% 90-98%				
4	Moisture Resistance	l.R.	500MΩ min.	65 50 50 40 8 30 8 30 6 25 50 10 10 10 10 10 10 10 10 10 1				
		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 100kΩ resisto at 85±3°C and 80 to 85% humidity for 1000±12h. Remove and let sit for 24±2h at room condition*, then measure.				
	riamiaicy	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					
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 [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 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				
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.				

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

Temperature Compensating Type Specifications and Test Methods

Continued from the preceding page.

No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method			
		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	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. Post-treatment Capacitor should be stored for 24±2h at room condition*.			
1	Soldering Heat (Non-Preheat)	Dielectric Strength (Between Terminals)	No defects				
		Appearance	No defects or abnormalities				
13	Resistance to	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			
3	(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. 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			
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)			

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

Continued on the following page. \nearrow

Temperature Compensating Type Specifications and Test Methods

Continued from the preceding page. \searrow

No.	AEC-Q200	Test Item	Specifi	cations	AEC-Q20	00 Test Method		
		Appearance	No defects or abnormalities		Visual inspection			
		Capacitance	Within the specified tolerance		The capacitance, Q should be frequency and voltage show			
		Q	Q ≧ 1000		C < 1000pF 1±	equency Voltage 0.1MHz AC0.5 to 5V (r.m.s.) 0.1kHz AC1±0.2V (r.m.s.)		
			Room Temperature	10000MΩ min.	The insulation resistance should be measured at 25±3°C w DC voltage not exceeding the rated voltage at normal temperature and humidity and within 2min of charging. (Charge/Discharge current ≤ 50mA)			
		I.R.	High Temperature	ligh Temperature 20MΩ min.		ould be measured at 200±5°C with 25% of the rated voltage at normal and within 2min of charging. 50mA)		
17	Electrical Charac- terization	Dielectric Strength	Between Terminals	No defects or abnormalities	The capacitor should not be applied between the termina (Charge/Discharge current Rated Voltage DC100V DC200V DC500V			
			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 impresent between capacitor terminals metal balls. (Charge/Discharge current ≦	r so that each of approximately in in the figure, ssed for 1 to 5s Approx. 2mm is and		
					Rated Voltage DC100V, DC200V DC500V	Test Voltage 250% of the rated voltage 150% of the rated voltage		
18	Terminal Strength	l Lermination 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			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	uld be measured after 5min at step.		
			Within the specified Tolerance		Step 1	Temperature (°C) 25±2		
				ratura Coefficient	2	-55±3 25±2		
	0		Char. Tempe -55 to 25°C: 0+30	rature Coefficient	4	25±2 200±5		
19	Capacitar Temperat		CCG 25 to 125°C: 0±30	• •	5	25±2		
19	Characte			• •	The temperature coefficient	-		
			125 to 200°C: 0+72/-30ppm/°C -55 to 25°C: -750+120/-347ppm/°C 25 to 125°C: -750±120ppm/°C 125 to 200°C: -750+347/-120ppm/°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. The capacitance drift is caluculated by dividing the differences			
					betweeen the maximum and step 1, 3 and 5 by the capac	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	ost-Stress		-			
	Electrical	Appearance	No defects or abnormalities except color change of outer coating				
2	High Temperature	Capacitance Change	Within ±12.5%	Sit the capacitor for 1000±12h at 175±5°C. Let sit for 24±2h at room condition*, then measure. •Pretreatment			
_	Exposure (Storage)	D.F.	Char. XAL: 0.075 max. Char. XAN: 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.	1000M Ω or 50M Ω • μF min. (Whichever is smaller)				
		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*, then measure.			
3	Temperature	Capacitance Change	Within ±12.5%	Step 1 2 3 4			
3	Cycling	D.F.	Char. XAL: 0.075 max. Char. XAN: 0.05 max.	Temp. (°C) -55+0/-3 Room Temp. 175+5/-0 Room Temp. Time (min) 15±3 1 15±3 1 •Pretreatment			
		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	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%) treatment shown below, 10 consecutive times.			
		Capacitance Change	Within ±12.5%	Let sit for 24±2h at room condition*, then measure. Humidity Humidity Humidity Humidity Humidity			
	Moisture Resistance	D.F.	Char. XAL: 0.075 max. Char. XAN: 0.05 max.	(°C) 90-98% 80-98% 90-98% 80-98% 90-98% 70 65 65 60 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
4		LR.	500MΩ or 25MΩ • μF min. (Whichever is smaller)	0 1 2 3 4 5 6 7 8 9 101112131415161718192021222324 Hours			
		Appearance	No defects or abnormalities	 Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let sit for 24±2h at room condition*. Apply the rated voltage and DC1.3+0.2/-0 V (add 100kΩ resisted) 			
5	Biased	Capacitance Change	Within ±12.5%	at 85±3°C and 80 to 85% humidity for 1000±12h. Remove and let sit for 24±2h at room condition*, then measure. The charge/discharge current is less than 50mA.			
	Humidity	D.F.	Char. XAL: 0.075 max. Char. XAN: 0.05 max.	•Pretreatment Perform the heat treatment at 150+0/-10°C for 1h and then let			
		I.R.	500MΩ or 25MΩ • μF min. (Whichever is smaller)	sit for 24±2h at room condition*.			
		Appearance	No defects or abnormalities except color change of outer coating	Apply 50% of the rated voltage for 1000±12h at 175±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.	Char. XAL: 0.075 max. Char. XAN: 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)				
7	External \		No defects or abnormalities	Visual inspection			
8	Physical I	imension	Within the specified dimensions	Using calipers and micrometers			
9	Marking		To be easily legible	Visual inspection			
		Appearance		Per MIL-STD-202 Method 215 Solvent 1: 1 part (by volume) of isopropyl alcohol			
	Desistant	Capacitance	Within the specified tolerance	3 parts (by volume) of mineral spirits			
10	Resistance to Solvents	D.F.	Char. XAL: 0.075 max. Char. XAN: 0.025 max.	Solvent 2: Terpene defluxer Solvent 3: 42 parts (by volume) of water 1part (by volume) of propylene glycol			
		I.R.	10000MΩ or 500MΩ • μF min. (Whichever is smaller)	1part (by volume) of propylene glycol monomethyl ether 1 part (by volume) of monoethanolamine			

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

High Dielectric Constant Type Specifications and Test Methods

Continued from the preceding page. \searrow

No.	AEC-Q200	Test Item	Specifications	AEC-Q200 Test Method			
		Appearance	No defects or abnormalities	Three shocks in each direction should be applied along 3			
11	Mechanical	Capacitance	Within the specified tolerance	mutually perpendicular axes of the test specimen (18 shocks).			
	Shock	D.F.	Char. XAL: 0.075 max.	The specified test pulse should be Half-sine and should have a duration: 0.5ms, peak value: 1500G and velocity change: 4.7m/s.			
			Char. XAN: 0.025 max.	, , ,			
		Appearance		The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied			
4.0	V.C.1	Capacitance	Within the specified tolerance	uniformly between the approximate limits of 10 and 2000Hz. The frequency range, from 10 to 2000Hz and return to 10Hz,			
12	Vibration	D.F.	Char. XAL: 0.075 max. Char. XAN: 0.025 max.	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)	Strength		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	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	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 ' 3	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 the 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.	Char. XAL: 0.075 max.	Step 1 2			
	Shock		Char. XAN: 0.05 max.	Temp. (°C) -55+0/-3 175+5/-0 Time (min) 15±3 15±3			
		I.R.	1000MΩ or 50MΩ • μF min. (Whichever is smaller)	•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				
		Capacitance	Within the specified tolerance				
15	ESD	D.F. Char. XAL: 0.075 max. Char. XAN: 0.025 max.		Per AEC-Q200-002			
		I.R.	10000Μ Ω or 500Μ Ω • μF 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.			
			perature: 15 to 35°C, Relative humidity: 45 to 75%, Atmosphere p	Temp. of solder : 245±5°C Lead Free Solder (Sn-3.0Ag-0.5Cu)			

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

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

High Dielectric Constant Type Specifications and Test Methods

No.	AEC-Q200	Test Item		Specifications	AEC-Q200 T	est Method		
		Appearance	No defects or abnorm	nalities	Visual inspection			
		Capacitance	Within the specified t	olerance	The capacitance, D.F. should be r			
			Char. XAL: 0.075 max. Char. XAN: 0.025 max.		frequency and voltage shown in the table.			
		D.F.			Frequency 1±0.1kHz	Voltage AC1±0.2V (r.m.s.)		
		I.R.	Room Temperature	10000MΩ or 500MΩ • μF min. (Whichever is smaller)	The insulation resistance should DC voltage not exceeding the ratemperature and humidity and w (Charge/Discharge current ≤ 50r	ted voltage at normal vithin 2min of charging.		
17	Electrical Charac- terization		High Temperature	10MΩ or 0.5MΩ • μF min. (Whichever is smaller)	The insulation resistance should a DC voltage not exceeding 50% temperature and humidity and w (Charge/Discharge current ≤ 50r	of the rated voltage at normal vithin 2min of charging.		
			Between Terminals	No defects or abnormalities	The capacitor should not be dam 250% of the rated voltage is app for 1 to 5s. (Charge/Discharge current ≤ 50r	olied between the terminations		
		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 250% of the rated DC voltage is impressed for 1 to 5s between capacitor terminals and metal balls. (Charge/Discharge current ≤ 50mA.)			
18	Terminal Strength	Tensile Strength	Termination not to be	e broken or loosened	gradually to each lead in the radi	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 $10\pm1s$.		
		Bending Strength			be bent 90° at the point of egres then returned to the original pos	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 should leach specified temperature step			
					Step	Temperature (°C)		
					1	25±2		
			Within the specified T	Tolerance	2 3	-55±3		
	Capacitar	nce	Char.	Capacitance Change	4	25±2 175±5		
19	Temperat	ure	AAL	L50°C: Within ±15%	5	25±2		
	Characteristics		150 to 175°C: Within+15/-40% XAN		25°C value over the temperature should be within the specified ra •Pretreatment Perform the heat treatment at let sit for 24±2h at room condit	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.		

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

Leaded MLCC for General Purpose

■ RDE Series (DC25V-DC1kV)

Features

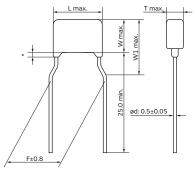
- 1. Small size and large capacitance
- 2. Low ESR characteristics for high frequency
- 3. Meet LF (Lead Free) and HF (Halogen Free)
- 4. Flow soldering is available, but re-flow soldering is not available.

Applications

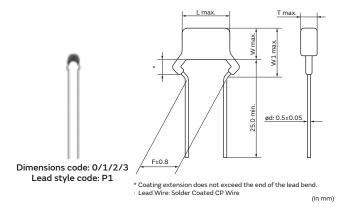
General electronic equipment

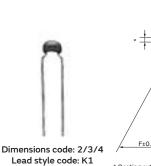
(Do not use for automotive-related power train and safety equipment.)

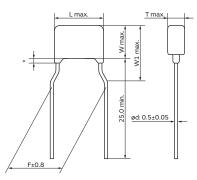




- Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire

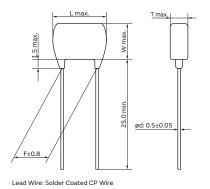






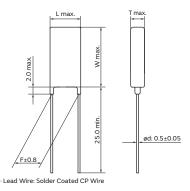
Coating extension does not exceed the end of the lead bend. Lead Wire: Solder Coated CP Wire





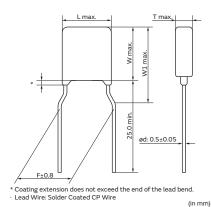
(in mm)





(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												
Rated Voltage	DC2	5V	С	0C50V			DC100V		DC250V	DC500V	DC630V	DC1kV
Dimensions Temp. Code Char.	X7S	X7R	COG	X7S	X7R	COG	X7S	X7R		X7R, U2	2J, C0G	
0		(104K)		-			-		-		-	-
1	(224K)	-	A 102J	-	224K	A 102J	-	(224K)	(U2J) (U2J) (X7R)	(X7R)	-	-
2	(€,475) (€,K2C)	-	© 563 J5A	(€,475) (€,475)	(%) 105 K5C	(M) 103 J1A	-	(%105)	(U2J) (U2J) (W473) (K4C) (X7R) (X7R) (C0G)	(X7R)	(U2J) (U2J) (U2J) (X7R) (X7R) (X7R)	(U2J) (U2J) (U2J) (W102 (X7R) (X7R) (102 (X7R) (COG)
3, 4, W	(M226 K2C)	-	-	(M226 K5C)	(M335 K5C	-	(M225 K1C	-	(W473 J4U (U2J) (W224 K4C (X7R)	(X7R)	(V2J) (U2J) (H104 K7C (X7R)	(U2J) (W333 (X7R)
5, U	-	-	-	-	-	-	-	-	- 474 4474 K4C (X7R)	(X7R)	(U2J) (U2J) (W474 M7C (X7R)	(U2J) (U2J) (X7R)
Temperature Characteristics				A, X7S/X7 to the ma			U)					
Nominal Capacitance	Under 10	0pF: Actu	al value 1	.00pF and	over: Mark	ed with 3 f	igures					
Capacitance Tolerance	Marked v		lease refer	to the ma	rking exam	nple.)						
Rated Voltage		Marked with code (DC25V: 2, DC50V: 5, DC100V: 1, DC250V: 4, DC500V: 9, DC630V: 7, DC1kV: A) A part is omitted (Please refer to the marking example.)										
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

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
RDE5C1H6R0D0□□H03□	COG (EIA)	50Vdc	6.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H6R0D0□□H03□	COG (EIA)	50Vdc	6.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H7R0D0□□H03□	COG (EIA)	50Vdc	7.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H7R0D0 H03	COG (EIA)	50Vdc	7.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H8R0D0 H03	COG (EIA)	50Vdc	8.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H8R0D0 H03	COG (EIA)	50Vdc	8.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H9R0D0 H03	COG (EIA)	50Vdc	9.0pF±0.5pF	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H9R0D0 H03	COG (EIA)	50Vdc	9.0pF±0.5pF	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H100J0 H03	COG (EIA)	50Vdc	10pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H100J0 H03	COG (EIA)	50Vdc	10pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H120J0	COG (EIA)	50Vdc	12pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H120J0	COG (EIA)	50Vdc	12pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H150J0	COG (EIA)	50Vdc	15pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H150J0	COG (EIA)	50Vdc	15pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H180J0	COG (EIA)	50Vdc	18pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H180J0 H03	COG (EIA)	50Vdc	18pF±5%	5.0×3.5	2.5	2.5	P1	S1
	·		22pF±5%					
RDE5C1H22OJO H03	COG (EIA)	50Vdc	'	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H220J0 H03	COG (EIA)	50Vdc	22pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H270J0 H03	COG (EIA)	50Vdc	27pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H270J0 H03	COG (EIA)	50Vdc	27pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H330J0 H03	COG (EIA)	50Vdc	33pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H330J0 H03	COG (EIA)	50Vdc	33pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H390J0 H03	COG (EIA)	50Vdc	39pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H390J0 H03	COG (EIA)	50Vdc	39pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H470J0 H03	COG (EIA)	50Vdc	47pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H470J0 H03	COG (EIA)	50Vdc	47pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H560J0 H03	COG (EIA)	50Vdc	56pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H560J0 H03	COG (EIA)	50Vdc	56pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H680J0 H03	COG (EIA)	50Vdc	68pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H680J0 H03	COG (EIA)	50Vdc	68pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H820J0 H03	COG (EIA)	50Vdc	82pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H820J0 H03	COG (EIA)	50Vdc	82pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H101J0 H03	COG (EIA)	50Vdc	100pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H101J0 H03	COG (EIA)	50Vdc	100pF±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	M1
RDE5C1H121J0 H03	COG (EIA)	50Vdc	120pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H151J0 H03	COG (EIA)	50Vdc	150pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H151J0 H03	COG (EIA)	50Vdc	150pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H181J0 H03	COG (EIA)	50Vdc	180pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H181J0 H03	COG (EIA)	50Vdc	180pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H221J0 H03	COG (EIA)	50Vdc	220pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H221J0 H03	COG (EIA)	50Vdc	220pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H271J0 H03	COG (EIA)	50Vdc	270pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H271J0 H03	COG (EIA)	50Vdc	270pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H331J0 H03	COG (EIA)	50Vdc	330pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H331J0 H03	COG (EIA)	50Vdc	330pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H391J0 H03	COG (EIA)	50Vdc	390pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H391J0 H03	COG (EIA)	50Vdc	390pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H471J0 H03	COG (EIA)	50Vdc	470pF±5%	4.0×3.5	2.5	5.0	K1	M1
RDE5C1H471J0 H03	COG (EIA)	50Vdc	470pF±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	M1
RDE5C1H561J0 H03	COG (EIA)	50Vdc	560pF±5%	5.0×3.5	2.5	2.5	P1	S1
RDE5C1H681J0 H03	COG (EIA)	50Vdc	680pF±5%	4.0×3.5	2.5	5.0	K1	M1
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
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	18000pF±5%	5.0×3.5	3.15	2.5	P1	S1
RDE5C1H223J1 H03	COG (EIA)	50Vdc 50Vdc	22000pF±5%	4.5×3.5 5.0×3.5	3.15 3.15	5.0 2.5	K1 P1	M1 S1
RDE5C1H223J1	COG (EIA)	50Vdc	22000pF±5% 27000pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C1H273J2 H03	COG (EIA)	50Vdc	27000pi ±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	COG (EIA)	50Vdc	47000pF±5%	5.5×4.0	3.15	2.5	P1	S1
RDE5C1H563J2	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
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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
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	3.15	2.5	P1	S1
RDE5C2A472J2 H03	COG (EIA)	100Vdc	4700pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C2A472J2 H03	COG (EIA)	100Vdc	4700pF±5%	5.5×4.0	3.15	2.5	P1	S1
RDE5C2A562J2 H03	COG (EIA)	100Vdc	5600pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C2A562J2 H03	COG (EIA)	100Vdc	5600pF±5%	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 RDE5C2A103J2 H03	COG (EIA)	100Vdc 100Vdc	8200pF±5% 10000pF±5%	5.5×4.0 5.5×4.0	3.15	2.5 5.0	P1 K1	S1 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 RDE5C2E221J2 H03	COG (EIA)	250Vdc 250Vdc	180pF±5% 220pF±5%	5.5×4.0 5.5×4.0	3.15	5.0 5.0	K1 K1	M1 M1
RDE5C2E271J2 H03	COG (EIA)	250Vdc	270pF±5%	5.5×4.0 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 H03	COG (EIA)	250Vdc	390pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE5C2E471J2 H03	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 250Vdc	10000pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2E123J2 H03	COG (EIA)	250Vdc	12000pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1						
	, ,				3.15	5.0		M1						
RDE5C2E153J2 H03 RDE5C2J100J2 H03	COG (EIA)	250Vdc 630Vdc	15000pF±5%	5.5×4.0	3.15		K1							
	COG (EIA)		10pF±5%	5.5×4.0		5.0	K1	M1						
RDE5C2J120J2 H03	COG (EIA)	630Vdc	12pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J150J2 H03	COG (EIA)	630Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J180J2 H03	COG (EIA)	630Vdc	18pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J220J2 H03	COG (EIA)	630Vdc	22pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J270J2 H03	COG (EIA)	630Vdc	27pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J330J2 H03	COG (EIA)	630Vdc	33pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J390J2 H03	COG (EIA)	630Vdc	39pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J470J2 H03	COG (EIA)	630Vdc	47pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J560J2 H03	COG (EIA)	630Vdc	56pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J680J2 H03	COG (EIA)	630Vdc	68pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J820J2 H03	COG (EIA)	630Vdc	82pF±5%	5.5×4.0	3.15	5.0	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 H03	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	820pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J102J2 H03	COG (EIA)	630Vdc	1000pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J122J2 H03	COG (EIA)	630Vdc	1200pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J152J2 H03	COG (EIA)	630Vdc	1500pF±5%	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						
RDE5C2J272J2 H03	COG (EIA)	630Vdc	2700pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C2J332J2 H03	COG (EIA)	630Vdc	3300pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C3A100J2 H03	COG (EIA)	1000Vdc	10pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C3A120J2 H03	COG (EIA)	1000Vdc	12pF±5%	5.5×4.0	3.15	5.0	K1	M1						
RDE5C3A150J2 H03	COG (EIA)	1000Vdc	15pF±5%	5.5×4.0	3.15	5.0	K1	M1						
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 H03	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	U2J (EIA)	630Vdc	1500pF±5%	5.5×4.0	3.15	5.0	K1	M1
RDE7U2J222J2 H03 RDE7U2J332J2 H03	U2J (EIA)	630Vdc 630Vdc	2200pF±5% 3300pF±5%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1 K1	M1 M1
RDE7U2J472J2 H03	U2J (EIA)	630Vdc	4700pF±5%	5.5×4.0 5.5×4.0	3.15	5.0	K1	M1
RDE7U2J682J3	U2J (EIA)	630Vdc		5.5×5.0	4.0	5.0	K1	M1
RDE7U2J103J3	U2J (EIA)	630Vdc	6800pF±5% 10000pF±5%	5.5×5.0 5.5×5.0	4.0	5.0	K1	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	4.0	5.0	K1	M1
RDE7U2J333J5	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
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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
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	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

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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		
RDER71H222K0 H03	X7R (EIA)	50Vdc	2200pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H332K0□□H03□	X7R (EIA)	50Vdc	3300pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H332K0 H03	X7R (EIA)	50Vdc	3300pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H472K0□□H03□	X7R (EIA)	50Vdc	4700pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H472K0□□H03□	X7R (EIA)	50Vdc	4700pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H682K0□□H03□	X7R (EIA)	50Vdc	6800pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H682K0□□H03□	X7R (EIA)	50Vdc	6800pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H103K0□□H03□	X7R (EIA)	50Vdc	10000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H103K0□□H03□	X7R (EIA)	50Vdc	10000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H153K0□□H03□	X7R (EIA)	50Vdc	15000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H153K0□□H03□	X7R (EIA)	50Vdc	15000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H223K0□□H03□	X7R (EIA)	50Vdc	22000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H223K0□□H03□	X7R (EIA)	50Vdc	22000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H333K0□□H03□	X7R (EIA)	50Vdc	33000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H333K0□□H03□	X7R (EIA)	50Vdc	33000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H473K0□□H03□	X7R (EIA)	50Vdc	47000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H473K0□□H03□	X7R (EIA)	50Vdc	47000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H683K0□□H03□	X7R (EIA)	50Vdc	68000pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H683K0□□H03□	X7R (EIA)	50Vdc	68000pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H104K0□□H03□	X7R (EIA)	50Vdc	0.1µF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER71H104K0□□H03□	X7R (EIA)	50Vdc	0.1µF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER71H154K1□□H03□	X7R (EIA)	50Vdc	0.15µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H154K1□□H03□	X7R (EIA)	50Vdc	0.15µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER71H224K1□□H03□	X7R (EIA)	50Vdc	0.22µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H224K1□□H03□	X7R (EIA)	50Vdc	0.22µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER71H334K1□□H03□	X7R (EIA)	50Vdc	0.33µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H334K1 H03	X7R (EIA)	50Vdc	0.33µF±10%	5.0×3.5	3.15	2.5	P1	S1		
RDER71H474K1 H03	X7R (EIA)	50Vdc	0.47µF±10%	4.5×3.5	3.15	5.0	K1	M1		
RDER71H474K1 H03	X7R (EIA)	50Vdc	0.47µF±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 50Vdc	0.68µF±10%	5.5×4.0 4.5×3.5	3.15 3.15	5.0	K1	M1 M1		
RDEC71H105K1 H03 RDEC71H105K1 H03	X7S (EIA) X7S (EIA)	50Vdc	1.0μF±10% 1.0μF±10%	5.0×3.5	3.15	2.5	K1 P1	S1		
RDER71H105K2 H03	X73 (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		
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□	X7R (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	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		
RDEC71H106K3□□H03□	X7S (EIA)	50Vdc	10μF±10%	5.5×5.0	4.0	5.0	K1	M1		
RDEC71H226MW H03	X7S (EIA)	50Vdc	22μF±20%	5.5×7.5	4.0	5.0	K1	M1		
RDER72A221K0□□H03□	X7R (EIA)	100Vdc	220pF±10%	4.0×3.5	2.5	5.0	K1	M1		
RDER72A221K0□□H03□	X7R (EIA)	100Vdc	220pF±10%	5.0×3.5	2.5	2.5	P1	S1		
RDER72A331K0□□H03□	X7R (EIA)	100Vdc	330pF±10%	4.0×3.5	2.5	5.0	K1	M1		
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		
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		
RDER72A152K0□□H03□	X7R (EIA)	100Vdc	1500pF±10%	4.0×3.5	2.5	5.0	K1	M1		

Continued from the preceding pa	ge. 🔰							
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)	100Vdc 100Vdc	22000pF±10%	5.0×3.5	2.5 3.15	2.5 5.0	P1	S1 M1
RDER72A333K1 HO3	X7R (EIA)	100Vdc	33000pF±10%	4.5×3.5			K1	
RDER72A333K1 H03	X7R (EIA)		33000pF±10%	5.0×3.5	3.15	2.5	P1	S1
RDER72A473K1 H03	X7R (EIA)	100Vdc	47000pF±10%	4.5×3.5	3.15	5.0	K1	M1
RDER72A473K1 H03	X7R (EIA)	100Vdc	47000pF±10%	5.0×3.5	3.15	2.5	P1	S1
RDER72A683K1 H03	X7R (EIA)	100Vdc	68000pF±10%	4.5×3.5	3.15	5.0	K1	M1
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
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	X7R (EIA)	100Vdc	1.0µF±10%	5.5×4.0	3.15	2.5	P1	S1
RDER72A105K2 H03	X7R (EIA)	100Vdc	1.0µF±10%	5.5×4.0	3.15	5.0	K1	M1
RDEC72A155K3 H03	X7S (EIA)	100Vdc	1.5µF±10%	5.5×5.0	4.0	2.5	P1	S1
RDEC72A155K3 H03	X7S (EIA)	100Vdc	1.5µF±10%	5.5×5.0	4.0	5.0	K1	M1
RDEC72A225K3 H03	X7S (EIA)	100Vdc	2.2µF±10%	5.5×5.0	4.0	2.5	P1	S1
RDEC72A225K3 H03	X7S (EIA)	100Vdc	2.2µF±10%	5.5×5.0	4.0	5.0	K1	M1
RDEC72A475MW H03	, ,	100Vdc	4.7µF±20%	5.5×7.5	4.0	5.0	K1	M1
RDER72E102K1 H03	X7R (EIA)	250Vdc	1000pF±10%	4.5×3.5	3.15	5.0	K1	M1
RDER72E152K1 H03	X7R (EIA)	250Vdc	1500pF±10%	4.5×3.5	3.15	5.0	K1	M1
RDER72E222K1 H03	X7R (EIA)	250Vdc	2200pF±10%	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 H03	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 H03	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

Continued from the preceding pa	ige. 🔰							
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 H03	X7R (EIA)	1000Vdc 1000Vdc	3300pF±10%	5.5×4.0 5.5×4.0	3.15 3.15	5.0	K1 K1	M1 M1
RDER73A472K2 H03	X7R (EIA)	1000Vdc	4700pF±10% 6800pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDER73A682K2 H03 RDER73A103K2 H03	X7R (EIA) 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 HO3	X7R (EIA)	1000Vdc	47000pF±10%	7.5×5.5	4.0	5.0	K1	M1
RDER73A683K5 HO3	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)

			Sp	pecificat	itions			
No.	Ite	m 	Temperature Compensating 1	Туре	High Dielectric Constant Type		Test Meth	nod
1	Operating Ten Range	nperature	-55 to +125°C	С	Char. X7R, X7S: -55 to +125°C		-	
2	Appearance		No defects or abnormalities	es.		Visual inspecti	on	
3	Dimension and	d Marking	See previous pages			Visual inspecti	on, Vernier Calip	er
						voltages of Tal	ole are applied be	amaged when test etween the terminals current ≦ 50mA)
		Between Terminals	No defects or abnormalities	es		Temperature Compensating Type	Rated Voltage DC50V, DC100V DC250V DC630V DC1kV DC25V, DC50V, DC100V	Test Voltage 300% of the rated voltage 200% of the rated voltage 150% of the rated voltage 130% of the rated voltage 250% of the rated voltage
						High Dielectric Constant Type	DC250V DC500V, DC630V DC1kV	200% of the rated voltage 200% of the rated voltage 150% of the rated voltage 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-circuited, is kept approximately 2mm from the balls as shown in the figure, 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, DC500V 200% of the rated voltage DC630V, DC1kV DC1300V			
5	Insulation Resistance	Between Terminals	More than 10000M or 500MΩ • μF (Whichever is smaller)	Rated voltage: DC25V, DC50V, DC100V More than 10000M or 500MΩ • μF (Whichever is smaller) Rated voltage:		DC voltage not in case of rated normal temper charging.	exceeding the r	d be measured with a ated voltage (DC500V DV, DC630V, DC1kV) at ity and within 2min of DmA)
6	Capacitance		Within the specified tolerar	nce				be measured at 25°C
						Temperature (compensating Ty	·
						Capacitanc		ACO 5 to 51/
						C ≦ 1000pl	1±0.1MH	(r.m.s.)
7	Q/Dissipation	Factor (D.F.)	30pF min.: Q ≧ 1000 30pF max.: Q ≧ 400+20C C: Nominal capacitance (pF	_	Char. X7R: 0.025 max. Char. X7S: 0.125 max.	C > 1000pl		z AC1±0.2V (r.m.s.)
			рі	´			Constant Type	Valta es
						Capacitanc C ≦ 10µF	e Frequenc 1±0.1kH	AC1+0.2V
						C > 10µF	120±24⊦	ACO 5+0.1\/

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N				Specifi	cations		Took Motherd	
No.	Ite	m	Tempera	ture Compensating Type	High Dielectric Constant Type		Test Method	
8	Capacitance Temperature Characteristics Tensile Strength Terminal Strength		Char. COG U2J	Temperature Coefficient 25 to 125°C: 0±30ppm/°C -55 to 25°C: 0+30/-72ppm/°C 25 to 125°C: -750±120ppm/°C -55 to 25°C: -750+120/-347ppm/°C	Char. Capacitance Change X7R Within ± 15% X7S Within ± 22%	min at each specific The temperature of capacitance meast cycling the temperature of the capacitance meast cycling the temperature of the capacitance of the cycling the c	Temperature (°C) 25±2 -55±3 25±2 125±3 25±2 r 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.		
9			Termina	tion 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	Termina	tion not to be broken or	loosened	and then bent 90° direction. Each wir	auld be subjected to a force of 2.5N at the point of egress in one e is then returned to the original 90° in the opposite direction at the er 2 to 3s.	
		Appearance	No defe	cts or abnormalities		The capacitor should be firmly soldered to the supporting lead wire and vibrated at a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a		
	Vibration	Capacitance	Within t	he specified tolerance				
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 vi	bration change from 10 to 55Hz Apply for a total of 6h, 2h each in 3	
11	Solderability of Leads			re should be soldered wi n over 3/4 of the circum	th uniform coating on the axial ferential direction.	The terminal of a capacitor is dipped into a 25% ethano (JIS-K-8101) solution of rosin (JIS-K-5902) and then into molten solder 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	t		asured and observed cha ations in the following ta	aracteristics should satisfy the ble.	solder 1.5 to 2.0m	uld be immersed in the melted m from the root of terminal at	
	(Non-Preheat)	Appearance	No defe	cts or abnormalities		260±5°C for 7.5+0 Pre-treatment)/-1s.	
12 ' 1		Capacitance Change		2.5% or ±0.25pF ver is larger)	Char. X7R: Within ±7.5% Char. X7S: Within ±10%	Capacitor should then place at roor	be stored at 150+0/-10°C for 1h, n temperature for 24±2h	
	Dielectric Strength (Between Terminals)		No defe	cts	E to 75% Atmosphere pressure.	Post-treatment Capacitor should condition*.	surement. (For Char. X7R, X7S) be 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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No.	lter	n	Specifi	cations		Tost Mothed		
10.	Ite	"	Temperature Compensating Type	High Dielectric Constant Type		Test Method		
	Resistance to Soldering Heat		The measured and observed cha specifications in the following ta	•	First the c 60+0/-5s	apacitor should be stored at 1	20+0/-5°C for	
	(On-Preheat)	Appearance	No defects or abnormalities		· '	lead wires should be immersed to 2.0mm from the root of ter		
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-treatr	for 7.5+0/-1s. ment		
2		Dielectric Strength (Between Terminals)	No defects		then plac initial me Post-treat	r should be stored for 24±2h at	2h before S)	
	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		Soldering Soldering	time: 3.5±0.5s.		
12	ii oii Metiloa)	Capacitance Change	Within ±2.5% or ±0.25pF (Whichever is larger)	Char. X7R: Within ±7.5% Char. X7S: Within ±10%	Straight L	position Lead: 1.5 to 2.0mm from the ro ad: 1.5 to 2.0mm from the end		
3		Dielectric Strength (Between Terminals)	No defects		Pre-treatment 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*.			
		Appearance	No defects or abnormalities					
		Capacitance Change	Within ±5% or ±0.5pF (whichever is larger)	Char. X7R, X7S: Within ±12.5%	cycles.	citor should be subjected to 5 t	•	
	Temperature		30pF min.: Q ≧ 350			±2h at room temperature, the		
13		Q/D.F.	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 1 2	Temperature (°C) Min. Operating Temp. ±3 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		Perform a	ment (for high dielectric consta heat treatment at 150+0/-10 t at room temperature for 24±	°C for 1h, and	
		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 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.	measure. • Pretreat Perform a	nd set for 24±2h at room temp ment (for high dielectric consta heat treatment at 150+0/-10 t at room temperature for 24±	ant type) °C for 1h, and	
		Insulation Resistance	1000MΩ, 50MΩ • μF min. (which	never is smaller)	then let si	t at room temperature for 24±	211.	
		Appearance	No defects or abnormalities			+24		
		Capacitance Change	Within ±5% or ±0.5pF (whichever is larger)	Char. X7R, X7S: Within ±12.5%	in 90 to 9	rated voltage for 500^{+24}_{0} h at 600 5% humidity. nd set for 24±2h at room temp		
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/D • Pretreat	Discharge current ≦ 50mA) ment (for high dielectric consta	ant type)	
					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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No.	lte		Specifi	cations		Test Met	had.	
INO.	Ite	π	Temperature Compensating Type	High Dielectric Constant Type		i est Meti	nod	
		Appearance	No defects or abnormalities		Apply voltage in Table for 1000 ⁺⁴ ₀ 8h at the maximum operating temperature±3°C. Remove and set for 24±2h at room temperature, ther measure. (Charge/Discharge current ≤ 50mA)			
		Capacitance Change	Within ±3% or ±0.3pF (whichever is larger)	Char. X7R, X7S:				
	High			Within ±12.5%	Temperature Compensating	DC50V, DC100V, DC250V	Test Voltage 150% of the rated voltage	
16	Temperature Load	Q/D.F.	30pF min.: Q ≥ 350 10pF to 30pF: Q ≥ 275+5C/2 10pF max.: Q ≥ 200+10C	Char. X7R: 0.04 max. Char. X7S: 0.2 max.	Type High Dielectric	DC630V, DC1kV DC25V, DC50V, DC100V, DC250V DC500V, DC630V	120% of the rated voltage 150% of the rated voltage 120% of the rated voltage	
			C: Nominal capacitance (pF)		Constant Type	DC1kV	110% of the rated voltage	
		Insulation Resistance	1000MΩ, 50MΩ • μF min. (which	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.

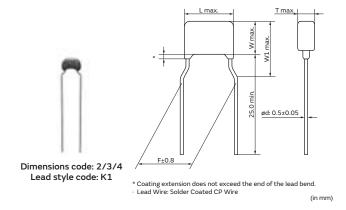
Applications

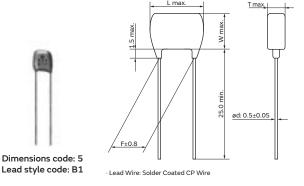
- 1. DC smoothing capacitor for LED bulb
- 2. PFC capacitor for general use SMPS
- 3. Replace Al-E capacitor for long-life equipment

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	5.0	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		

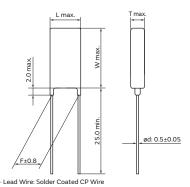
^{*}DC630V: W+0.5mm





(in mm)





(in mm)

Marking

Rated Voltage	DC250V	DC450V	DC630V
Code Temp. Char.		Х7Т	
2	(F) 683 K47	(M 153)	(P 153)
3, 8	(M 334 K47	(M 104 K97	(M 223 K77
5, U	(M) 225 M47	(H) 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, D	C450V: 9, DC630V: 7)	
Manufacturer's Identification	Marked with M		

RDED72E333K2	X7T (EIA) X7T (EIA) X7T (EIA) X7T (EIA)	250Vdc 250Vdc	33000pF±10% 47000pF±10%	5.5×4.0				Taping
RDED72E683K2□□H03□	X7T (EIA)		47000nF+10%		3.15	5.0	K1	M1
		0 = 0 \ ()	1. 300pi ±10 /0	5.5×4.0	3.15	5.0	K1	M1
DDED73E104V3□□U03□	Χ7Τ (FIΔ)	250Vdc	68000pF±10%	5.5×4.0	3.15	5.0	K1	M1
RDED72E104K3□□H03□	// / (LI//)	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

	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.	Ite	m	Specifications	Test Method
1	Operating Ten Range	nperature	-55 to +125°C	-
2	Appearance		No defects or abnormalities	Visual inspection
3	Dimension and	l 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 Resistance 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 Factor (D.F.)		0.01 max.	frequency of 1±0.1kHz and a voltage of AC1±0.2V(r.m.s.).
8	Capacitance Temperature Characteristics		Within +22/-33%	The capacitance change should be measured after 5min at each specified temperature stage. Step
9	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 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	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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and rosin (JIS-H) and then into me in both cases the it 1.5 to 2mm from the rost of the image. The image is a stored at 150+0 to the image is a stored at 150+0 to the image is a should be immer as should be immer from the root of the image. The image is a should be immer from the root of the image is a should be immer from the root of the image. It is a stored at 150+0 to the image is a should be immer from the root of the image.	er (Sn-3.0Ag-0.5Cu) Eutectic Solder In the melted Fterminal at 0/-10°C for 1h, 24±2h before				
from the root of 1s. stored at 150+0 temperature for stored for 24±2 mould be stored at should be immer from the root of 1s.	terminal at 0/-10°C for 1h, 24±2h before				
estored at 150+0 temperature for estored for 24±2 nould be stored a should be immed from the root of -1s.	0/-10°C for 1h, 24±2h before th at room				
temperature for :: stored for 24±2 nould be stored a should be immel from the root of -1s.	24±2h before th at room				
temperature for :: stored for 24±2 nould be stored a should be immel from the root of -1s.	24±2h before th at room				
nould be stored a should be immer from the root of -1s.					
should be immer from the root of -1s.	at 120+0/-5°C for				
from the root of -1s. e stored at 150+0					
-1s. estored at 150+0	rsed in the melted				
	solder 1.5 to 2.0mm from the root of terminal at 260±5°C for 7.5+0/-1s. Pre-treatment				
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*.					
n-tip: 350±10°C	:				
0.5s.					
	e root of terminal. end of lead bend.				
Pre-treatment Capacitor should be stored at 150+0/-10 then place at room temperature for 24±2 initial measurement. Post-treatment Capacitor should be stored for 24±2h at r condition*.					
The capacitor should be subjected to 5 temperatur					
. (0.5)					
-55±3	Time (min) 30±3				
	3 max.				
	30±3 3 max.				
ment at 150+0/ emperature for 2	′-10°C for 1h, and 24±2h.				
	ative humidity of				
² 6h. Remove and perature, then mo					
ment at 150+0/ emperature for 2	'-10°C for 1h and 24±2h.				
age at 40±2°C ar					
emperature, ther	Remove and set n measure.				
urrent ≧ 50MA)					
Pretreatment Perform a heat treatment at 150+0/-10°C for 1h and then let sit at room temperature for 24±2h.					
	2.0mm from the estored at 150+1 temperature for estored for 24±2 d be subjected to perature (°C) -55±3 com Temp. 125±3 com Temp. 125±3 com Temp. 240±2°C and relace temperature for emperature, then more than the subjected to emperature for 40±2°C and relace emperature for emperature fo				

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

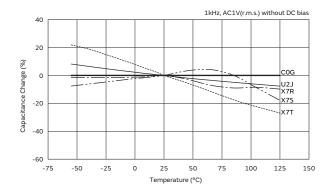
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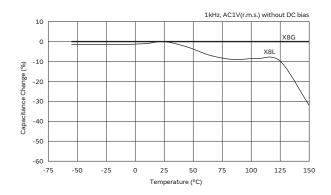
No.	Ite	m	Specifications		Test Method	
		Appearance	No defects or abnormalities	1 1 1 7	le for 1000 ⁺⁴⁸ _O h at the maximum	
		Capacitance Change	Within ±12.5%	operating temperature, to room temperature, to (Charge/Discharge c		
		D.F.	0.02 max.	Rated Voltage	Test Voltage	
16	High Temperature Load	Insulation Resistance	More than 1000MΩ or 50MΩ • μF (Whichever is smaller)	DC250V 150% of the rated voltage DC450V 130% of the rated voltage DC630V 120% of the rated voltage • 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)

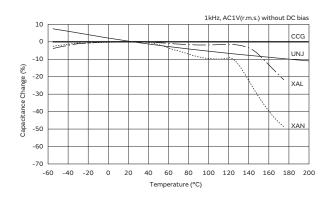
Capacitance - Temperature Characteristics (RCE, RDE Series)



Capacitance - Temperature Characteristics (RHE Series)

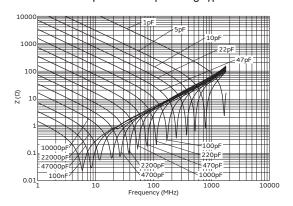


Capacitance - Temperature Characteristics (RHS Series)

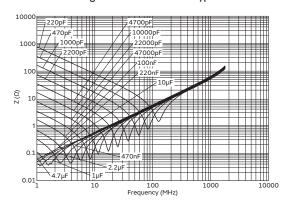


Impedance - Frequency Characteristics

Temperature Compensating Type

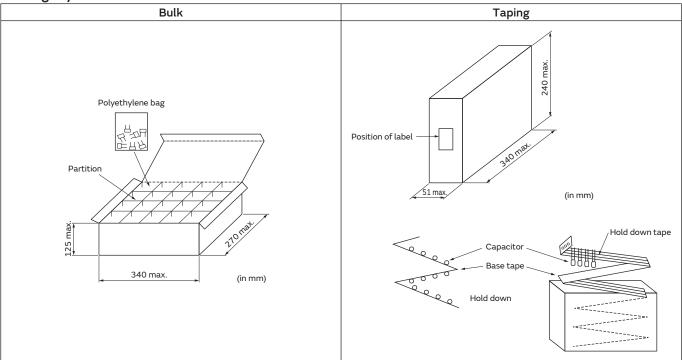


High Dielectric Constant Type



Packaging

Packing Styles



Minimum Quantity

[Bulk]

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

[Taping]

rl01							
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					
DDE	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.

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

Please check our website "Product details".

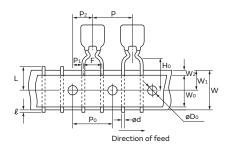
"Minimum Quantity" means the numbers of units of each delivery or order. The quantity should be an integral multiple of the "minimum quantity." (Please note that the actual delivery quantity in a package may change sometimes.)

Packaging

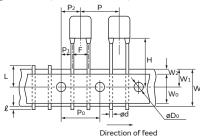
Continued from the preceding page.

Taping Dimensions

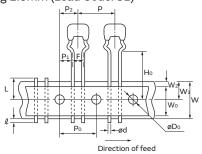
Inside Crimp Taping Lead Spacing 5.0mm (Lead Code: M1, M2)

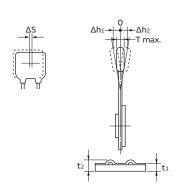


Straight Taping
Lead Spacing 2.5mm (Lead Code: DB, DG)
Lead Spacing 5.0mm (Lead Code: E1)



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





Dimension of capacitors on tape (in mm)

Dimension of capacitors on tape	(11111111)	1					
ltem	Code			Lead (Code		
item	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} _{-0.2} 5.0 ^{+0.6} _{-0.2} 2			2.5+0.4		
Length from hole center to component center	P ₂	6.35±1.3					
Longth from halo contacts load	P1	5.1±0.7 3.85±0.7 5.			5.1±0.7		
Length from hole 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 1			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 -1.0					
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.

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.

- 2 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
 - (3) 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 February 2018. 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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