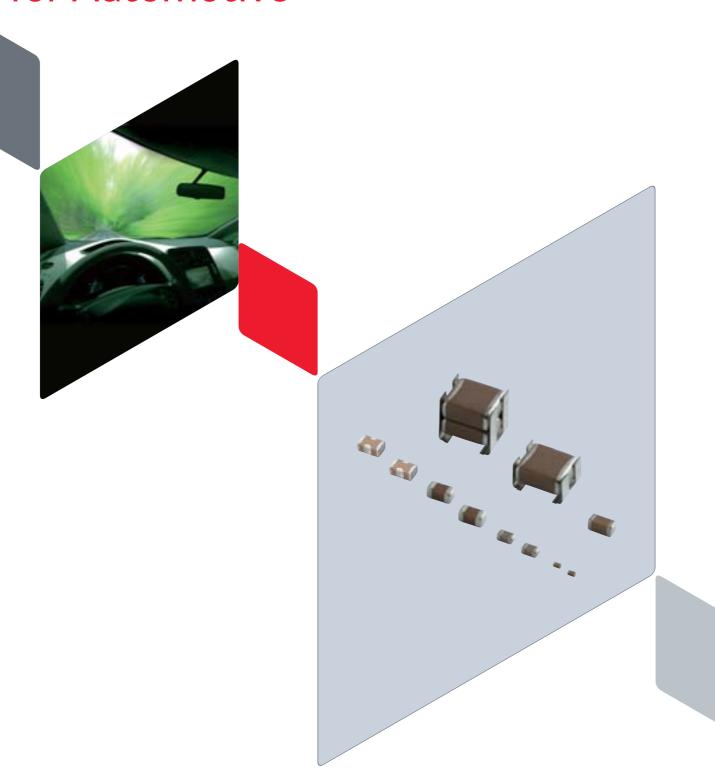


# Chip Multilayer Ceramic Capacitors for Automotive

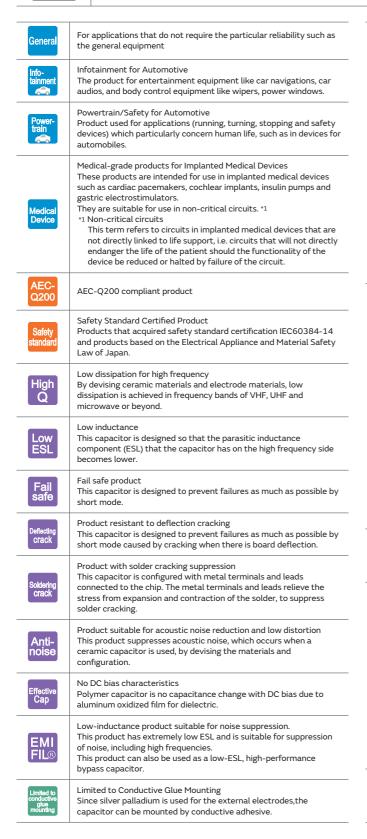




# Explanation of Symbols in This Catalog



Links are provided to the latest information from the PDF version of the catalog, which is available on the web.

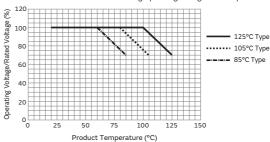


## Derating 1

This product is suitable when a voltage continuously applied to a capacitor in an operating circuit, is used below (derated) the rated voltage of the capacitor. This model guarantees the test conditions in the endurance test, at a rated voltage x 100% at the maximum operating temperature. A reliability assurance level equivalent to a common product can be secured, by using this product within the voltage and temperature derated conditions recommended in the figure below.

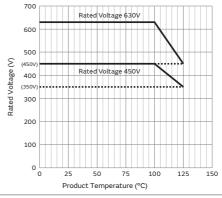
## D1

Recommended Conditions of the Derating Operating Voltage and Temperature



#### Derating 2

When the product temperature exceeds  $105^{\circ}$ C, please use this product within the voltage and temperature derated conditions in the figure below.



# D3

D2

Derating 3

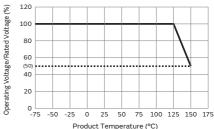
Please apply the derating curve according to the operating temperature.

Please refer to detailed specifications sheet for details.

### Derating 4

When the product temperature exceeds 125°C, please use this product within the voltage and temperature derated conditions in the figure below.



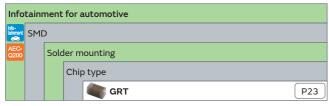


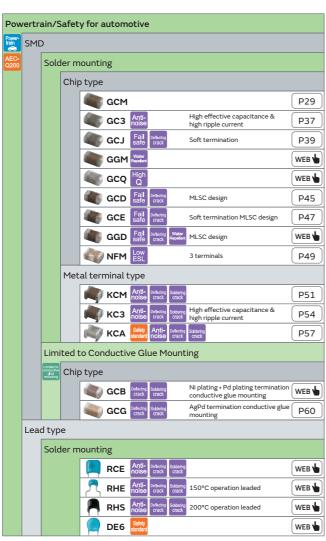


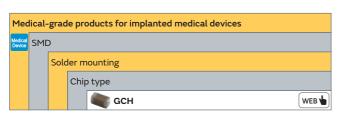
Please apply the rated voltage derating over 150°C. Please refer to

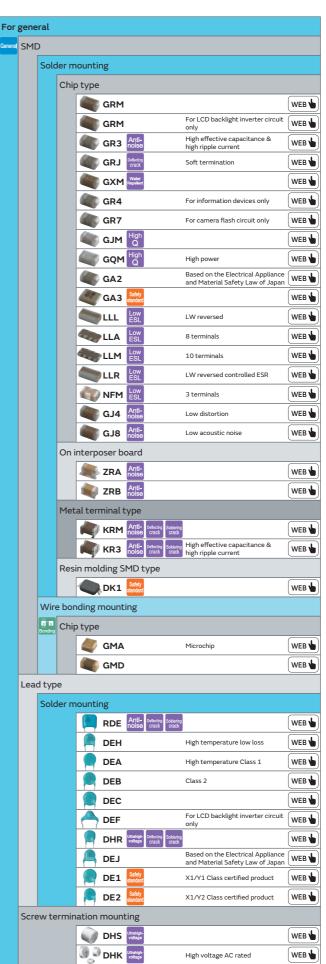
detailed specifications sheet for details.

# Selection Guide for Capacitors









## Part Numbering

## Chip Multilayer Ceramic Capacitors for Automotive



(Part Number)

GC M 18 8 R7 1H 102 K A37 D

## 1 Product ID

## 2 Series

Product ID	Code	Series		
	3	High effective capacitance & High allowable ripple current		
	D	Specially designed product to reduce shorts		
GC	E	Specially designed product to reduce shorts & resin electrode product		
	G	Limited to conductive glue mounting		
	J	Soft termination type		
	М	For automotive		
GR	Т	Meet AEC-Q200 for infotainment		
	3	Metal terminal type/High effective capacitance & High allowable ripple current		
КС	А	Metel terminal type/ Safety standard certified product		
М		Metal terminal type		

## 3Chip Dimension (L x W)

Code	Dimension (L x W)	EIA
03	0.6 x 0.3mm	0201
15	1.0 x 0.5mm	0402
18	1.6 x 0.8mm	0603
21	2.0 x 1.25mm	0805
31	3.2 x 1.6mm	1206
32	3.2 x 2.5mm	1210
43	4.5 x 3.2mm	1812
55	5.7 x 5.0mm	2220

## **4** Height Dimension (T) (Except $KC\square$ )

Code	Dimension (T)			
3	0.3mm			
5	0.5mm			
6	0.6mm			
8	0.8mm			
9	0.85mm			
Α	1.0mm			
В	1.25mm			
С	1.6mm			
D	2.0mm			
E	2.5mm			
M	1.15mm			
Q	1.5mm			
X	Depends on individual standards.			

## **4**Height Dimension (T) (**KC**□ Only)

Code	Dimension (T)		
L	2.8mm		
Q	3.7mm		
Т	4.8mm		
W	6.4mm		

## **6**Temperature Characteristics

Temperature Temperature Characteristics		Operating	Capacitance Change Each Temperature (%)																														
Code	Public Re	Reference Temperature	Temperature	Capacitance Change	Temperature Range	-55°C		*4		-10°C																							
Code	STD Co	de	Temperature	Range	or Temperature Coefficient		Max.	Min.	Max.	Min.	Max.	Min.																					
5C	COG	EIA	25°C	25 to 125°C	0±30ppm/°C	–55 to 125°C	0.58	-0.24	0.4	-0.17	0.25	-0.11																					
5G	X8G	*2	25°C	25 to 150°C	0±30ppm/°C	-55 to 150°C	0.58	-0.24	0.4	-0.17	0.25	-0.11																					
7U	U2J	EIA	25°C	25 to 125°C *3	-750±120ppm/°C	–55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21																					
	ĐE ZLM *2			-55 to -40°C	-4700+1000/-2500ppm/°C	-55 to 125°C	-	-	-	-	-	-																					
0.5		*2	20°C	-40 to 20°C	-5350±750ppm/°C		-	-	-	-	-	-																					
96		^2	20°C	20 to 85°C	-4700±500ppm/°C		-	-	-	-	-	-																					
																									85 to 125°C	-4700+2000/-1000ppm/°C		-	-	-	-	-	-
С7	X7S	EIA	25°C	-55 to 125°C	±22%	–55 to 125°C	-	-	-	-	-	-																					
C8	X6S	EIA	25°C	-55 to 105°C	±22%	–55 to 105°C	-	-	-	-	-	-																					
D7	X7T	EIA	25°C	-55 to 125°C	+22%, -33%	–55 to 125°C	-	-	-	-	-	-																					
L8	X8L	*2	25°C	-55 to 150°C	+15%, -40%	-55 to 150°C	-	-	-	-	-	-																					
M8	X8M	*2	25°C	-55 to 150°C	+15%, -50%	-55 to 150°C	-	-	-	-	-	-																					
R6	X5R	EIA	25°C	−55 to 85°C	±15%	-55 to 85°C	-	-	-	-	-	-																					
R7	X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°C	-	-	-	-	-	-																					
R9	X8R	EIA	25°C	-55 to 150°C	±15%	–55 to 150°C	-	-	-	-	-	-																					

<sup>\*1</sup> Capacitance change is specified with 50% rated voltage applied.

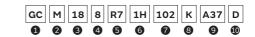
Continued on the following page. **7** 

<sup>\*2</sup> Murata Temperature Characteristic Code.

<sup>\*3</sup> Rated Voltage 100Vdc max: 25 to 85°C

<sup>\*4 –25°</sup>C (Reference Temperature 20°C) / –30°C (Reference Temperature 25°C)

(Part Number)



## Continued from the preceding page. $\searrow$

## **6**Rated Voltage

Code		
Standard Product	Voltage Derated Product	Rated Voltage
OE	-	DC2.5V
0G	-	DC4V
Ol	EC	DC6.3V
1A	ED	DC10V
1C	EE	DC16V
1E	EF	DC25V
YA	EG	DC35V
1H	EH	DC50V
1J	-	DC63V
1K	-	DC80V
2A	EL	DC100V
2E	-	DC250V
2W	LP	DC450V
2J	LQ	DC630V
ЗА	-	DC1kV
MF	-	X1/Y2: AC250V (Safety Standard Certified Type MF)

## Capacitance

Expressed by three-digit alphanumerics. 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 " $\mathbf{R}$ ." In this case, all figures are significant digits.

If any letter, other than  ${\rm "R"}$  is included, this indicates the specific part number is a non-standard part.

.,	١

Code	Capacitance
R50	0.50pF
1R0	1.0pF
100	10pF
103	10000pF

## **3**Capacitance Tolerance

Code	Capacitance Tolerance			
С	±0.25pF			
Б.	±0.5pF (Less than 10pF)			
Ь	±0.5% (10pF and over)			
J ±5%				
K	±10%			
М	±20%			

Individual Specification Code

Expressed by three figures.

#### 

Code Package			
L	ø180mm Embossed Taping		
D/W	ø180mm Paper Taping		
K	ø330mm Embossed Taping		
J	ø330mm Paper Taping		

Please contact us if you find any part number not provided in this table.

## 3 Terminal Low ESL Multilayer Ceramic Capacitors

WEB 🖢

(Part Number)

NF M 3D CC 102 R 1H 3 L 9 6 6 6 9 8 9

## 1 Product ID 2 Series

Product ID	Series
NFM	3 Terminal Low ESL Type

## 3Dimensions (LxW)

Code	Code Dimensions (LxW)	
21	2.0x1.25mm	0805
31	3.2x1.6mm	1206

### 4 Features

Code	Features					
нс	Powertrain/Safety	For Signal Lines / For Large Current				
НК	101 Addoniotive	For Very Large Current				

## 6 Capacitance

Expressed by three figures. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

## **6**Characteristics

Code	Capacitance Temperature Characteristics
R	±15%, +15/-18%

## Rated Voltage

Code	Rated Voltage
1A	10V
1C	16V
1H	50V
2A	100V

## 8 Electrode

Code	Electrode
3	Sn Plating

## Packaging

Code	Packaging
L	Embossed Taping (ø180mm Reel)
D	Paper Taping (ø180mm Reel)

Please contact us if you find any part number not provided in this table.

GCJ Series

Chip Multilayer Ceramic Capacitors for Automotive

# **GCM** Series







## Capacitor for automotive applications such as power train and safety equipment.

## **Features**

1 Ideal for powertrains and safety devices in automotive.

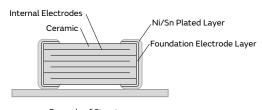
This product can be used for safety devices, such as the drive system control for engine ECU, air bags, and ABS. This product has cleared test conditions more severe than that of general products (GRM Series) even in temperature cycle and humidity load tests.

	General Purpose GRM Series Maximum operating temperature: <b>125°C</b>	GCM Series for Automotive Maximum operating temperature: <b>150°C</b>
Items	Test Method	Test Method
Temperature Cycle	Temperature Cycle: <b>5 cycles</b>	Temperature Cycle: 100 cycles (1,000 cycles for AEC-Q200 conforming products)
Humidity Loading	Test temperature: 40±2°C Test humidity: 90 to 95%RH Test time: 500 hours	Test temperature: 85±2°C Test humidity: 80 to 85%RH Test time: 500 hours (1,000 hours for AEC-Q200 conforming products)

2 Can be used at 125°C and 150°C temperatures.

We also offer a lineup for 150°C that can be used in the engine room.

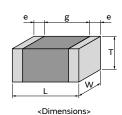
3 Sn plating is applied to the external electrodes; excellent solderability.



## <Example of Structure>

## Specifications

Size	0.6×0.3mm to 5.7×5.0mm
Rated Voltage	4Vdc to 1000Vdc
Capacitance	0.10pF to 47μF
Main Applications	Safety equipment, such as drive system control, air bags, and ABS of engine ECU



# GCM Series Temperature Compensating Type 🚟 🐯 Part Number List

## 1.0×0.5mm

1.0×0.	JIIIIII					
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	1.0pF	±0.25pF	GCM1555C1H1R0CA16#	
			2.0pF	±0.25pF	GCM1555C1H2R0CA16#	
			3.0pF	±0.25pF	GCM1555C1H3R0CA16#	
			4.0pF	±0.25pF	GCM1555C1H4R0CA16#	
			5.0pF	±0.25pF	GCM1555C1H5R0CA16#	
			6.0pF	±0.5pF	GCM1555C1H6R0DA16#	
			7.0pF	±0.5pF	GCM1555C1H7R0DA16#	
			8.0pF	±0.5pF	GCM1555C1H8R0DA16#	
			9.0pF	±0.5pF	GCM1555C1H9R0DA16#	
			10pF	±5%	GCM1555C1H100JA16#	
			12pF	±5%	GCM1555C1H120JA16#	
			15pF	±5%	GCM1555C1H150JA16#	
			18pF	±5%	GCM1555C1H180JA16#	
			22pF	±5%	GCM1555C1H220JA16#	
			27pF	±5%	GCM1555C1H270JA16#	
			33pF	±5%	GCM1555C1H330JA16#	
			39pF	±5%	GCM1555C1H390JA16#	
			47pF	±5%	GCM1555C1H470JA16#	
			56pF	±5%	GCM1555C1H560JA16#	
			68pF	±5%	GCM1555C1H680JA16#	
			82pF	±5%	GCM1555C1H820JA16#	
			100pF	±5%	GCM1555C1H101JA16#	
			120pF	±5%	GCM1555C1H121JA16#	
			150pF	±5%	GCM1555C1H151JA16#	
			180pF	±5%	GCM1555C1H181JA16#	
			220pF	±5%	GCM1555C1H221JA16#	
			270pF	±5%	GCM1555C1H271JA16#	
			330pF	±5%	GCM1555C1H331JA16#	
			390pF	±5%	GCM1555C1H391JA16#	
			470pF	±5%	GCM1555C1H471JA16#	
			560pF	±5%	GCM1555C1H561JA16#	
			680pF	±5%	GCM1555C1H681JA16#	
			820pF	±5%	GCM1555C1H821JA16#	
			1000pF	±5%	GCM1555C1H102JA16#	
		X8G	1.0pF	±0.25pF	GCM1555G1H1R0CA16#	
			2.0pF	±0.25pF	GCM1555G1H2R0CA16#	
			3.0pF	±0.25pF	GCM1555G1H3R0CA16#	
			4.0pF	±0.25pF	GCM1555G1H4R0CA16#	
			5.0pF	±0.25pF	GCM1555G1H5R0CA16#	
			12pF	±5%	GCM1555G1H120JA16#	
			15pF	±5%	GCM1555G1H150JA16#	
			18pF	±5%	GCM1555G1H180JA16#	
			22pF	±5%	GCM1555G1H220JA16#	
			27pF	±5%	GCM1555G1H270JA16#	
			33pF	±5%	GCM1555G1H330JA16#	
			39pF	±5%	GCM1555G1H390JA16#	
			47pF	±5%	GCM1555G1H470JA16#	
			56pF	±5%	GCM1555G1H560JA16#	
			68pF	±5%	GCM1555G1H680JA16#	
			82pF	±5%	GCM1555G1H820JA16#	
			100pF	±5%	GCM1555G1H101JA16#	
			120pF	±5%	GCM1555G1H121JA16#	
					<del></del>	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X8G	150pF	±5%	GCM1555G1H151JA16#	
			180pF	±5%	GCM1555G1H181JA16#	
			220pF	±5%	GCM1555G1H221JA16#	
			270pF	±5%	GCM1555G1H271JA16#	
			330pF	±5%	GCM1555G1H331JA16#	
			390pF	±5%	GCM1555G1H391JA16#	
			470pF	±5%	GCM1555G1H471JA16#	
			560pF	±5%	GCM1555G1H561JA16#	
			680pF	±5%	GCM1555G1H681JA16#	
			820pF	±5%	GCM1555G1H821JA16#	
			1000pF	±5%	GCM1555G1H102JA16#	

## 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	1.0pF	±0.25pF	GCM1885C2A1R0CA16#
			2.0pF	±0.25pF	GCM1885C2A2R0CA16#
			3.0pF	±0.25pF	GCM1885C2A3R0CA16#
			4.0pF	±0.25pF	GCM1885C2A4R0CA16#
			5.0pF	±0.25pF	GCM1885C2A5R0CA16#
			6.0pF	±0.5pF	GCM1885C2A6R0DA16#
			7.0pF	±0.5pF	GCM1885C2A7R0DA16#
			8.0pF	±0.5pF	GCM1885C2A8R0DA16#
			9.0pF	±0.5pF	GCM1885C2A9R0DA16#
			10pF	±5%	GCM1885C2A100JA16#
			12pF	±5%	GCM1885C2A120JA16#
			15pF	±5%	GCM1885C2A150JA16#
			18pF	±5%	GCM1885C2A180JA16#
			22pF	±5%	GCM1885C2A220JA16#
			27pF	±5%	GCM1885C2A270JA16#
			33pF	±5%	GCM1885C2A330JA16#
			39pF	±5%	GCM1885C2A390JA16#
			47pF	±5%	GCM1885C2A470JA16#
			56pF	±5%	GCM1885C2A560JA16#
			68pF	±5%	GCM1885C2A680JA16#
			82pF	±5%	GCM1885C2A820JA16#
			100pF	±5%	GCM1885C2A101JA16#
			120pF	±5%	GCM1885C2A121JA16#
			150pF	±5%	GCM1885C2A151JA16#
			180pF	±5%	GCM1885C2A181JA16#
			220pF	±5%	GCM1885C2A221JA16#
			270pF	±5%	GCM1885C2A271JA16#
			330pF	±5%	GCM1885C2A331JA16#
			390pF	±5%	GCM1885C2A391JA16#
			470pF	±5%	GCM1885C2A471JA16#
			560pF	±5%	GCM1885C2A561JA16#
			680pF	±5%	GCM1885C2A681JA16#
			820pF	±5%	GCM1885C2A821JA16#
			1000pF	±5%	GCM1885C2A102JA16#
			1200pF	±5%	GCM1885C2A122JA16#
			1500pF	±5%	GCM1885C2A152JA16#
		U2J	1000pF	±5%	GCM1887U2A102JA16#
			1200pF	±5%	GCM1887U2A122JA16#

Part number # indicates the package specification code.

GCD Series

# GCM Series Temperature Compensating Type 🚟 🦝 Part Number List

(→ 1.6	0.8mm،	)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	U2J	1500pF	±5%	GCM1887U2A152JA16#
			1800pF	±5%	GCM1887U2A182JA16#
			2200pF	±5%	GCM1887U2A222JA16#
			2700pF	±5%	GCM1887U2A272JA16#
			3300pF	±5%	GCM1887U2A332JA16#
			3900pF	±5%	GCM1887U2A392JA16#
			4700pF	±5%	GCM1887U2A472JA16#
			5600pF	±5%	GCM1887U2A562JA16#
			6800pF	±5%	GCM1887U2A682JA16#
			8200pF	±5%	GCM1887U2A822JA16#
	_		10000pF		GCM1887U2A103JA16#
	50Vdc	COG	1.0pF		GCM1885C1H1R0CA16#
			2.0pF		GCM1885C1H2R0CA16#
			3.0pF		GCM1885C1H3R0CA16#
			4.0pF		GCM1885C1H4R0CA16#
			5.0pF	'	GCM1885C1H5R0CA16#
			6.0pF	•	GCM1885C1H6R0DA16#
			7.0pF	±0.5pF	GCM1885C1H7R0DA16#
			8.0pF	±0.5pF	GCM1885C1H8R0DA16#
			9.0pF	±0.5pF	GCM1885C1H9R0DA16#
			10pF	±5%	GCM1885C1H100JA16#
			12pF	±5% ±5%	GCM1885C1H120JA16# GCM1885C1H150JA16#
			15pF	±5%	GCM1885C1H180JA16#
			18pF 22pF	±5%	GCM1885C1H220JA16#
			27pF	±5%	GCM1885C1H270JA16#
			33pF	±5%	GCM1885C1H330JA16#
			39pF	±5%	GCM1885C1H390JA16#
			47pF	±5%	GCM1885C1H470JA16#
			56pF	±5%	GCM1885C1H560JA16#
			68pF	±5%	GCM1885C1H680JA16#
			82pF	±5%	GCM1885C1H820JA16#
			100pF	±5%	GCM1885C1H101JA16#
			120pF	±5%	GCM1885C1H121JA16#
			150pF	±5%	GCM1885C1H151JA16#
			180pF	±5%	GCM1885C1H181JA16#
			220pF	±5%	GCM1885C1H221JA16#
			270pF	±5%	GCM1885C1H271JA16#
			330pF	±5%	GCM1885C1H331JA16#
			390pF	±5%	GCM1885C1H391JA16#
			470pF	±5%	GCM1885C1H471JA16#
			560pF	±5%	GCM1885C1H561JA16#
			680pF	±5%	GCM1885C1H681JA16#
			820pF	±5%	GCM1885C1H821JA16#
			1000pF	±5%	GCM1885C1H102JA16#
			1200pF	±5%	GCM1885C1H122JA16#
			1500pF	±5%	GCM1885C1H152JA16#
			1800pF	±5%	GCM1885C1H182JA16#
			2200pF	±5%	GCM1885C1H222JA16#
			2700pF	±5%	GCM1885C1H272JA16#
			3300pF	±5%	GCM1885C1H332JA16#
			3900pF	±5%	GCM1885C1H392JA16#
		U2J	1000pF	±5%	GCM1887U1H102JA16#
			1200pF	±5%	GCM1887U1H122JA16#

	T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number		
	0.9mm	50Vdc	U2J	1500pF	±5%	GCM1887U1H152JA16#		
				1800pF	±5%	GCM1887U1H182JA16#		
				2200pF	±5%	GCM1887U1H222JA16#		
				2700pF	±5%	GCM1887U1H272JA16#		
				3300pF	±5%	GCM1887U1H332JA16#		
					3900pF	±5%	GCM1887U1H392JA16#	
				4700pF	±5%	GCM1887U1H472JA16#		
				5600pF	±5%	GCM1887U1H562JA16#		
				6800pF	±5%	GCM1887U1H682JA16#		
				8200pF	±5%	GCM1887U1H822JA16#		
				10000pF	±5%	GCM1887U1H103JA16#		

## 2.0×1.25mm

,	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.	.7mm	100Vdc	COG	100pF	±5%	GCM2165C2A101JA16#	
				120pF	±5%	GCM2165C2A121JA16#	
				150pF	±5%	GCM2165C2A151JA16#	
				180pF	±5%	GCM2165C2A181JA16#	
				220pF	±5%	GCM2165C2A221JA16#	
				270pF	±5%	GCM2165C2A271JA16#	
				330pF	±5%	GCM2165C2A331JA16#	
				390pF	±5%	GCM2165C2A391JA16#	
				470pF	±5%	GCM2165C2A471JA16#	
				560pF	±5%	GCM2165C2A561JA16#	
				680pF	±5%	GCM2165C2A681JA16#	
				820pF	±5%	GCM2165C2A821JA16#	
				1000pF	±5%	GCM2165C2A102JA16#	
				1200pF	±5%	GCM2165C2A122JA16#	
				1500pF	±5%	GCM2165C2A152JA16#	
				1800pF	±5%	GCM2165C2A182JA16#	
				2200pF	±5%	GCM2165C2A222JA16#	
				2700pF	±5%	GCM2165C2A272JA16#	
				3300pF	±5%	GCM2165C2A332JA16#	
		50Vdc	COG	4700pF	±5%	GCM2165C1H472JA16#	
0.9	95mm	100Vdc	ZLM	1000pF	±10%	GCM2199E2A102KA05#	
					±20%	GCM2199E2A102MA05#	
				1100pF	±10%	GCM2199E2A112KA05#	
					±20%	GCM2199E2A112MA05#	
				1200pF	±10%	GCM2199E2A122KA05#	
					±20%	GCM2199E2A122MA05#	
				1300pF	±10%	GCM2199E2A132KA05#	
					±20%	GCM2199E2A132MA05#	
				1500pF	±10%	GCM2199E2A152KA05#	
					±20%	GCM2199E2A152MA05#	
		80Vdc	COG	15000pF	±5%	GCM2195C1K153JA16#	
		63Vdc	COG	15000pF	±5%	GCM2195C1J153JA16#	
		50Vdc	COG	5600pF	±5%	GCM2195C1H562JA16#	
				6800pF	±5%	GCM2195C1H682JA16#	
				8200pF	±5%	GCM2195C1H822JA16#	
				10000pF	±5%	GCM2195C1H103JA16#	
				12000pF	±5%	GCM2195C1H123JA16#	
				15000pF	±5%	GCM2195C1H153JA16#	
			•	Part num	ber # indi	cates the package specification	code.

# GCM Series Temperature Compensating Type Part Number List

(→ 2.0>	1.25m	m)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	630Vdc	COG	10pF	±5%	GCM21A5C2J100JX01#
			12pF	±5%	GCM21A5C2J120JX01#
			15pF	±5%	GCM21A5C2J150JX01#
			18pF	±5%	GCM21A5C2J180JX01#
			22pF	±5%	GCM21A5C2J220JX01#
			27pF	±5%	GCM21A5C2J270JX01#
			33pF	±5%	GCM21A5C2J330JX01#
			39pF	±5%	GCM21A5C2J390JX01#
			47pF	±5%	GCM21A5C2J470JX01#
			56pF	±5%	GCM21A5C2J560JX01#
			68pF	±5%	GCM21A5C2J680JX01#
			82pF	±5%	GCM21A5C2J820JX01#
			100pF	±5%	GCM21A5C2J101JX01#
			120pF	±5%	GCM21A5C2J121JX01#
			150pF	±5%	GCM21A5C2J151JX01#
			180pF	±5%	GCM21A5C2J181JX01#
			220pF	±5%	GCM21A5C2J221JX01#
			270pF	±5%	GCM21A5C2J271JX01#
			330pF	±5%	GCM21A5C2J331JX01#
			390pF	±5%	GCM21A5C2J391JX01#
			470pF	±5%	GCM21A5C2J471JX01#
			560pF	±5%	GCM21A5C2J561JX01#
	250Vdc	COG	10pF	±5%	GCM21A5C2E100JX01#
			12pF	±5%	GCM21A5C2E120JX01#
			15pF	±5%	GCM21A5C2E150JX01#
			18pF	±5%	GCM21A5C2E180JX01#
			22pF	±5%	GCM21A5C2E220JX01#
			27pF	±5%	GCM21A5C2E270JX01#
			33pF	±5%	GCM21A5C2E330JX01#
			39pF	±5%	GCM21A5C2E390JX01#
			47pF	±5%	GCM21A5C2E470JX01#
			56pF	±5%	GCM21A5C2E560JX01#
			68pF	±5%	GCM21A5C2E680JX01#
			82pF	±5%	GCM21A5C2E820JX01#
			100pF	±5%	GCM21A5C2E101JX01#
			120pF	±5%	GCM21A5C2E121JX01#
			150pF	±5%	GCM21A5C2E151JX01#
			180pF	±5%	GCM21A5C2E181JX01#
			220pF	±5%	GCM21A5C2E221JX01#
			270pF	±5%	GCM21A5C2E271JX01#
			330pF	±5%	GCM21A5C2E331JX01#
			390pF	±5%	GCM21A5C2E391JX01#
			470pF	±5%	GCM21A5C2E471JX01#
			560pF	±5%	GCM21A5C2E561JX01#
			680pF	±5%	GCM21A5C2E681JX01#
			820pF	±5%	GCM21A5C2E821JX01#
			1000pF	±5%	GCM21A5C2E102JX01#
			1200pF	±5%	GCM21A5C2E122JX01#
			1500pF	±5%	GCM21A5C2E152JX01#
			1800pF	±5%	GCM21A5C2E182JX01#
			2200pF	±5%	GCM21A5C2E222JX01#
			2700pF	±5%	GCM21A5C2E272JX01#
		U2J	100pF	±5%	GCM21A7U2E101JX01#
			120pF	±5%	GCM21A7U2E121JX01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	250Vdc	U2J	150pF	±5%	GCM21A7U2E151JX01#	
			180pF	±5%	GCM21A7U2E181JX01#	
			220pF	±5%	GCM21A7U2E221JX01#	
			270pF	±5%	GCM21A7U2E271JX01#	
			330pF	±5%	GCM21A7U2E331JX01#	
			390pF	±5%	GCM21A7U2E391JX01#	
			470pF	±5%	GCM21A7U2E471JX01#	
			560pF	±5%	GCM21A7U2E561JX01#	
			680pF	±5%	GCM21A7U2E681JX01#	
			820pF	±5%	GCM21A7U2E821JX01#	
			1000pF	±5%	GCM21A7U2E102JX01#	
			1200pF	±5%	GCM21A7U2E122JX01#	
			1500pF	±5%	GCM21A7U2E152JX01#	
			1800pF	±5%	GCM21A7U2E182JX01#	
			2200pF	±5%	GCM21A7U2E222JX01#	
1.4mm	80Vdc	COG	18000pF	±5%	GCM21B5C1K183JA16#	
			20000pF	±5%	GCM21B5C1K203JA16#	
			22000pF	±5%	GCM21B5C1K223JA16#	
	63Vdc	COG	18000pF	±5%	GCM21B5C1J183JA16#	
			20000pF	±5%	GCM21B5C1J203JA16#	
			22000pF	±5%	GCM21B5C1J223JA16#	
	50Vdc	COG	18000pF	±5%	GCM21B5C1H183JA16#	
			22000pF	±5%	GCM21B5C1H223JA16#	
1.45mm	630Vdc	COG	680pF	±5%	GCM21B5C2J681JX03#	
			820pF	±5%	GCM21B5C2J821JX03#	
			1000pF	±5%	GCM21B5C2J102JX03#	
			1200pF	±5%	GCM21B5C2J122JX03#	
	250Vdc	COG	3300pF	±5%	GCM21B5C2E332JX01#	
			3900pF	±5%	GCM21B5C2E392JX01#	
			4700pF	±5%	GCM21B5C2E472JX01#	
		U2J	2700pF	±5%	GCM21B7U2E272JX03#	
			3300pF	±5%	GCM21B7U2E332JX03#	
			3900pF	±5%	GCM21B7U2E392JX03#	
			4700pF	±5%	GCM21B7U2E472JX03#	
			5600pF	±5%	GCM21B7U2E562JX03#	

## 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.95mm	100Vdc	COG	3900pF	±5%	GCM3195C2A392JA16#	
			4700pF	±5%	GCM3195C2A472JA16#	
			5600pF	±5%	GCM3195C2A562JA16#	
			6800pF	±5%	GCM3195C2A682JA16#	
			8200pF	±5%	GCM3195C2A822JA16#	
			10000pF	±5%	GCM3195C2A103JA16#	
	80Vdc	COG	33000pF	±5%	GCM3195C1K333JA16#	
1.0mm	1000Vdc	COG	10pF	±5%	GCM31A5C3A100JX01#	
			12pF	±5%	GCM31A5C3A120JX01#	
			15pF	±5%	GCM31A5C3A150JX01#	
			18pF	±5%	GCM31A5C3A180JX01#	
			22pF	±5%	GCM31A5C3A220JX01#	
			27pF	±5%	GCM31A5C3A270JX01#	
			33pF	±5%	GCM31A5C3A330JX01#	

# GCM Series Temperature Compensating Type 🚟 🐯 Part Number List

(→ 3.2	×1.6mm	1)			
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	1000Vdc	COG	39pF	±5%	GCM31A5C3A390JX01#
			47pF	±5%	GCM31A5C3A470JX01#
			56pF	±5%	GCM31A5C3A560JX01#
			68pF	±5%	GCM31A5C3A680JX01#
			82pF	±5%	GCM31A5C3A820JX01#
			100pF	±5%	GCM31A5C3A101JX01#
			120pF	±5%	GCM31A5C3A121JX01#
			150pF	±5%	GCM31A5C3A151JX01#
			180pF	±5%	GCM31A5C3A181JX01#
			220pF	±5%	GCM31A5C3A221JX01#
			270pF	±5%	GCM31A5C3A271JX01#
			330pF	±5%	GCM31A5C3A331JX01#
			390pF	±5%	GCM31A5C3A391JX01#
			470pF	±5%	GCM31A5C3A471JX01#
		U2J	10pF	±5%	GCM31A7U3A100JX01#
			12pF	±5%	GCM31A7U3A120JX01#
			15pF	±5%	GCM31A7U3A150JX01#
			18pF	±5%	GCM31A7U3A180JX01#
			22pF	±5%	GCM31A7U3A220JX01#
			27pF	±5%	GCM31A7U3A270JX01#
			33pF	±5%	GCM31A7U3A330JX01#
			39pF	±5%	GCM31A7U3A390JX01#
			47pF	±5%	GCM31A7U3A470JX01#
			56pF	±5%	GCM31A7U3A560JX01#
			68pF	±5%	GCM31A7U3A680JX01#
			82pF	±5%	GCM31A7U3A820JX01#
			100pF	±5%	GCM31A7U3A101JX01#
			120pF	±5%	GCM31A7U3A121JX01#
			150pF	±5%	GCM31A7U3A151JX01#
			180pF	±5%	GCM31A7U3A181JX01#
			220pF	±5%	GCM31A7U3A221JX01#
			270pF	±5%	GCM31A7U3A271JX01#
			330pF	±5%	GCM31A7U3A331JX01#
	630Vdc	COG	10pF	±5%	GCM31A5C2J100JX01#
			12pF	±5%	GCM31A5C2J120JX01#
			15pF	±5%	GCM31A5C2J150JX01#
			18pF	±5%	GCM31A5C2J180JX01#
			22pF	±5%	GCM31A5C2J220JX01#
			27pF	±5%	GCM31A5C2J270JX01#
			33pF	±5%	GCM31A5C2J330JX01#
			39pF	±5%	GCM31A5C2J390JX01#
			47pF	±5%	GCM31A5C2J470JX01#
			56pF	±5%	GCM31A5C2J560JX01#
			68pF	±5%	GCM31A5C2J680JX01#
			82pF	±5%	GCM31A5C2J820JX01#
			100pF	±5%	GCM31A5C2J101JX01#
			120pF	±5%	GCM31A5C2J121JX01#
			150pF	±5%	GCM31A5C2J151JX01#
			180pF 220pF	±5%	GCM31A5C2J181JX01# GCM31A5C2J221JX01#
			270pF	±5%	GCM31A5C2J221JX01#
			330pF	±5%	GCM31A5C2J271JX01#
			390pF	±5%	GCM31A5C2J391JX01#
			470pF	±5%	GCM31A5C2J471JX01#
			470pr	±3%	GCI131A3C2J4/1JAU1#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	630Vdc	COG	560pF	±5%	GCM31A5C2J561JX01#	
			680pF	±5%	GCM31A5C2J681JX01#	
			820pF	±5%	GCM31A5C2J821JX01#	
			1000pF	±5%	GCM31A5C2J102JX01#	
			1200pF	±5%	GCM31A5C2J122JX01#	
			1500pF	±5%	GCM31A5C2J152JX01#	
			1800pF	±5%	GCM31A5C2J182JX01#	
		U2J	10pF	±5%	GCM31A7U2J100JX01#	
			12pF	±5%	GCM31A7U2J120JX01#	
			15pF	±5%	GCM31A7U2J150JX01#	
			18pF	±5%	GCM31A7U2J180JX01#	
			22pF	±5%	GCM31A7U2J220JX01#	
			27pF	±5%	GCM31A7U2J270JX01#	
			33pF	±5%	GCM31A7U2J330JX01#	
			39pF	±5%	GCM31A7U2J390JX01#	
			47pF	±5%	GCM31A7U2J470JX01#	
			56pF	±5%	GCM31A7U2J560JX01#	
			68pF	±5%	GCM31A7U2J680JX01#	
			82pF	±5%	GCM31A7U2J820JX01#	
			100pF	±5%	GCM31A7U2J101JX01#	
			120pF	±5%	GCM31A7U2J121JX01#	
			150pF	±5%	GCM31A7U2J151JX01#	
			180pF	±5%	GCM31A7U2J181JX01#	
			220pF	±5%	GCM31A7U2J221JX01#	
			270pF	±5%	GCM31A7U2J271JX01#	
			330pF	±5%	GCM31A7U2J331JX01#	
			390pF	±5%	GCM31A7U2J391JX01#	
			470pF	±5%	GCM31A7U2J471JX01#	
			560pF	±5%	GCM31A7U2J561JX01#	
			680pF	±5%	GCM31A7U2J681JX01#	
			820pF	±5%	GCM31A7U2J821JX01#	
			1000pF	±5%	GCM31A7U2J102JX01#	
			1200pF	±5%	GCM31A7U2J122JX01#	
			1500pF	±5%	GCM31A7U2J152JX01#	
			1800pF	±5%	GCM31A7U2J182JX01#	
	25011	000	2200pF	±5%	GCM31A7U2J222JX01#	
	250Vdc	COG	10pF	±5%	GCM31A5C2E100JX01#	
			12pF	±5%	GCM31A5C2E120JX01#	
			15pF	±5%	GCM31A5C2E150JX01#	
			18pF	±5%	GCM31A5C2E180JX01#	
			22pF	±5%	GCM31A5C2E220JX01#	
			27pF	±5%	GCM31A5C2E270JX01#	
			33pF	±5%	GCM31A5C2E330JX01#	
			39pF	±5%	GCM31A5C2E390JX01#	
			47pF	±5%	GCM31A5C2E470JX01#	
			56pF	±5%	GCM31A5C2E560JX01#	
			68pF	±5%	GCM31A5C2E680JX01#	
			82pF	±5% ±5%	GCM31A5C2E820JX01# GCM31A5C2E101JX01#	
			100pF	±5% ±5%	GCM31A5C2E101JX01#	
			120pF			
			150pF	±5%	GCM31A5C2E151JX01#	
			180pF	±5% ±5%	GCM31A5C2E181JX01#	
			220pF 270pF	±5% ±5%	GCM31A5C2E221JX01# GCM31A5C2E271JX01#	
					cates the package specification	code

# GCM Series Temperature Compensating Type Part Number List

(→ 3.2×1.6mm)

(→ 3.2)	(→ 3.2×1.6mm)							
T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number			
1.0mm	250Vdc	COG	330pF	±5%	GCM31A5C2E331JX01#			
			390pF	±5%	GCM31A5C2E391JX01#			
			470pF	±5%	GCM31A5C2E471JX01#			
			560pF	±5%	GCM31A5C2E561JX01#			
			680pF	±5%	GCM31A5C2E681JX01#			
			820pF	±5%	GCM31A5C2E821JX01#			
			1000pF	±5%	GCM31A5C2E102JX01#			
			1200pF	±5%	GCM31A5C2E122JX01#			
			1500pF	±5%	GCM31A5C2E152JX01#			
			1800pF	±5%	GCM31A5C2E182JX01#			
			2200pF	±5%	GCM31A5C2E222JX01#			
			2700pF	±5%	GCM31A5C2E272JX01#			
			3300pF	±5%	GCM31A5C2E332JX01#			
			3900pF	±5%	GCM31A5C2E392JX01#			
			4700pF	±5%	GCM31A5C2E472JX01#			
			5600pF	±5%	GCM31A5C2E562JX01#			
			6800pF	±5%	GCM31A5C2E682JX01#			
		U2J	2700pF	±5%	GCM31A7U2E272JX01#			
			3300pF	±5%	GCM31A7U2E332JX01#			
			3900pF	±5%	GCM31A7U2E392JX01#			
			4700pF	±5%	GCM31A7U2E472JX01#			
			5600pF	±5%	GCM31A7U2E562JX01#			
1.25mm	1000Vdc	COG	560pF	±5%	GCM31B5C3A561JX01#			
			680pF	±5%	GCM31B5C3A681JX01#			
		U2J	390pF	±5%	GCM31B7U3A391JX01#			
			470pF	±5%	GCM31B7U3A471JX01#			
			560pF	±5%	GCM31B7U3A561JX01#			
			680pF	±5%	GCM31B7U3A681JX01#			
	630Vdc	COG	2200pF	±5%	GCM31B5C2J222JX01#			
			2700pF	±5%	GCM31B5C2J272JX01#			
		U2J	2700pF	±5%	GCM31B7U2J272JX01#			
			3300pF	±5%	GCM31B7U2J332JX01#			
	250Vdc	COG	8200pF	±5%	GCM31B5C2E822JX01#			
			10000pF	±5%	GCM31B5C2E103JX01#			
			12000pF	±5%	GCM31B5C2E123JX01#			
		U2J	6800pF	±5%	GCM31B7U2E682JX01#			
			8200pF	±5%	GCM31B7U2E822JX01#			
			10000pF	±5%	GCM31B7U2E103JX01#			
1.8mm	1000Vdc	COG	820pF	±5%	GCM31C5C3A821JX03#			
			1000pF	±5%	GCM31C5C3A102JX03#			
		U2J	820pF	±5%	GCM31C7U3A821JX03#			
			1000pF	±5%	GCM31C7U3A102JX03#			
	630Vdc	COG	3300pF	±5%	GCM31C5C2J332JX03#			
		U2J	3900pF	±5%	GCM31C7U2J392JX03#			
			4700pF	±5%	GCM31C7U2J472JX03#			
	250Vdc	COG	15000pF	±5%	GCM31C5C2E153JX03#			

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	630Vdc	U2J	2200pF	±5%	GCM32A7U2J222JX01#	
1.25mm	1000Vdc	U2J	1200pF	±5%	GCM32B7U3A122JX01#	
	630Vdc	U2J	5600pF	±5%	GCM32B7U2J562JX01#	
1.5mm	1000Vdc	U2J	1500pF	±5%	GCM32Q7U3A152JX01#	
	630Vdc	U2J	6800pF	±5%	GCM32Q7U2J682JX01#	
2.0mm	1000Vdc	U2J	1800pF	±5%	GCM32D7U3A182JX01#	
			2200pF	±5%	GCM32D7U3A222JX01#	
	630Vdc	U2J	8200pF	±5%	GCM32D7U2J822JX01#	
			10000pF	±5%	GCM32D7U2J103JX01#	

## 4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.5mm	1000Vdc	U2J	2700pF	±5%	GCM43Q7U3A272JX01#	
			3300pF	±5%	GCM43Q7U3A332JX01#	
	630Vdc	U2J	12000pF	±5%	GCM43Q7U2J123JX01#	
2.0mm	1000Vdc	U2J	3900pF	±5%	GCM43D7U3A392JX01#	
			4700pF	±5%	GCM43D7U3A472JX01#	
	630Vdc	U2J	15000pF	±5%	GCM43D7U2J153JX01#	
			18000pF	±5%	GCM43D7U2J183JX01#	
			22000pF	±5%	GCM43D7U2J223JX01#	

## 5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	1000Vdc	U2J	5600pF	±5%	GCM55Q7U3A562JX01#
			6800pF	±5%	GCM55Q7U3A682JX01#
	630Vdc	U2J	27000pF	±5%	GCM55Q7U2J273JX01#
2.0mm	1000Vdc	U2J	8200pF	±5%	GCM55D7U3A822JX01#
			10000pF	±5%	GCM55D7U3A103JX01#
	630Vdc	U2J	33000pF	±5%	GCM55D7U2J333JX01#
			39000pF	±5%	GCM55D7U2J393JX01#
			47000pF	±5%	GCM55D7U2J473JX01#

## 3.2×2.5mm

T max.	Rated Voltage	TC Code	Сар.	Tol.	Part Number
1.0mm	630Vdc	U2J	1200pF	±5%	GCM32A7U2J122JX01#
			1500pF	±5%	GCM32A7U2J152JX01#
			1800pF	±5%	GCM32A7U2J182JX01#

# GCM Series High Dielectric Constant Type Report Number List

## 0.6×0.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	X7R	100pF	±10%	GCM033R71E101KA03#
			150pF	±10%	GCM033R71E151KA03#
			220pF	±10%	GCM033R71E221KA03#
			330pF	±10%	GCM033R71E331KA03#
			470pF	±10%	GCM033R71E471KA03#
			680pF	±10%	GCM033R71E681KA03#
			1000pF	±10%	GCM033R71E102KA03#
			1500pF	±10%	GCM033R71E152KA03#
			2200pF	±10%	GCM033R71E222KE02#
			3300pF	±10%	GCM033R71E332KE02#
	16Vdc	X7R	330pF	±10%	GCM033R71C331KA03#
			680pF	±10%	GCM033R71C681KA03#
			2200pF	±10%	GCM033R71C222KA55#
			3300pF	±10%	GCM033R71C332KA55#
	10Vdc	X7R	4700pF	±10%	GCM033R71A472KA03#
			6800pF	±10%	GCM033R71A682KA03#
			10000pF	±10%	GCM033R71A103KA03#

## 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.55mm	100Vdc	X7R	220pF	±10%	GCM155R72A221KA37#		
			330pF	±10%	GCM155R72A331KA37#		
			470pF	±10%	GCM155R72A471KA37#		
			680pF	±10%	GCM155R72A681KA37#		
			1000pF	±10%	GCM155R72A102KA37#		
			1500pF	±10%	GCM155R72A152KA37#		
			2200pF	±10%	GCM155R72A222KA37#		
			3300pF	±10%	GCM155R72A332KA37#		
			4700pF	±10%	GCM155R72A472KA37#		
	50Vdc	X8L	33000pF	±10%	GCM155L8EH333KE07#		
			47000pF	±10%	GCM155L8EH473KE07#		
			68000pF	±10%	GCM155L8EH683KE07#		
			0.10µF	±10%	GCM155L8EH104KE07#		
		X7R	220pF	±10%	GCM155R71H221KA37#		
			330pF	±10%	GCM155R71H331KA37#		
			470pF	±10%	GCM155R71H471KA37#		
			680pF	±10%	GCM155R71H681KA37#		
			1000pF	±10%	GCM155R71H102KA37#		
			1500pF	±10%	GCM155R71H152KA37#		
			2200pF	±10%	GCM155R71H222KA37#		
			3300pF	±10%	GCM155R71H332KA37#		
			4700pF	±10%	GCM155R71H472KA37#		
			6800pF	±10%	GCM155R71H682KA55#		
			10000pF	±10%	GCM155R71H103KA55#		
				15000pF	±10%	GCM155R71H153KA55#	
			22000pF	±10%	GCM155R71H223KA55#		
			33000pF	±10%	GCM155R71H333KE02#		
			47000pF	±10%	GCM155R71H473KE02#		
			68000pF	±10%	GCM155R71H683KE02#		
			0.10µF	±10%	GCM155R71H104KE02#		

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	25Vdc	X8L	0.10µF	±10%	GCM155L81E104KE02#	
		X7R	10000pF	±10%	GCM155R71E103KA37#	
			15000pF	±10%	GCM155R71E153KA55#	
			22000pF	±10%	GCM155R71E223KA55#	
			33000pF	±10%	GCM155R71E333KA55#	
			47000pF	±10%	GCM155R71E473KA55#	_
	16Vdc	X7R	33000pF	±10%	GCM155R71C333KA37#	_
			47000pF	±10%	GCM155R71C473KA37#	_
			68000pF	±10%	GCM155R71C683KA55#	_
			0.10µF	±10%	GCM155R71C104KA55#	_
			0.15µF	±10%	GCM155R71C154KE02#	_
			0.22µF	±10%	GCM155R71C224KE02#	
0.6mm	10Vdc	X7S	0.47µF	±10%	GCM155C71A474KE36#	
0.7mm	10Vdc	X7S	0.68µF	±10%	GCM155C71A684KE38#	
			1.0µF	±10%	GCM155C71A105KE38#	

## 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	1000pF	±10%	GCM188R72A102KA37#	
			1500pF	±10%	GCM188R72A152KA37#	
			2200pF	±10%	GCM188R72A222KA37#	
			3300pF	±10%	GCM188R72A332KA37#	
			4700pF	±10%	GCM188R72A472KA37#	
			6800pF	±10%	GCM188R72A682KA37#	
			10000pF	±10%	GCM188R72A103KA37#	
			15000pF	±10%	GCM188R72A153KA37#	
			22000pF	±10%	GCM188R72A223KA37#	
	50Vdc	X7R	0.22µF	±10%	GCM188R71H224KA64#	
	25Vdc	X7R	0.22µF	±10%	GCM188R71E224KA55#	
			0.47µF	±10%	GCM188R71E474KA64#	
			1.0µF	±10%	GCM188R71E105KA64#	
	16Vdc	X7R	0.33µF	±10%	GCM188R71C334KA37#	
			0.47µF	±10%	GCM188R71C474KA55#	
			1.0µF	±10%	GCM188R71C105KA64#	
	6.3Vdc	X7R	2.2µF	±10%	GCM188R70J225KE22#	

## 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	100Vdc	X7R	6800pF	±10%	GCM216R72A682KA37#	
			10000pF	±10%	GCM216R72A103KA37#	
			15000pF	±10%	GCM216R72A153KA37#	
			22000pF	±10%	GCM216R72A223KA37#	
0.95mm	100Vdc	X7R	33000pF	±10%	GCM219R72A333KA37#	
	50Vdc	X7R	0.33µF	±10%	GCM219R71H334KA55#	
	25Vdc	X7R	0.47µF	±10%	GCM219R71E474KA55#	
	16Vdc	X7R	0.68µF	±10%	GCM219R71C684KA37#	
			1.0µF	±10%	GCM219R71C105KA37#	
1.4mm	100Vdc	X7R	47000pF	±10%	GCM21BR72A473KA37#	
			68000pF	±10%	GCM21BR72A683KA37#	
			0.10µF	±10%	GCM21BR72A104KA37#	

Part number # indicates the package specification code.

# GCM Series High Dielectric Constant Type 🚟 🐯 Part Number List

→ 2.0×1.25mm)

(→ 2.0)	1.25m	m)				
T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.4mm	50Vdc	X7R	0.22µF	±10%	GCM21BR71H224KA37#	
			0.47µF	±10%	GCM21BR71H474KA55#	
			1.0µF	±10%	GCM21BR71H105KA03#	
	35Vdc	X8L	2.2µF	±10%	GCM21BL8EG225KE07#	
		X7R	0.68µF	±10%	GCM21BR7YA684KA55#	
			1.0µF	±10%	GCM21BR7YA105KA55#	
			1.5µF	±10%	GCM21BR7YA155KA54#	
		X7S	2.2µF	±10%	GCM21BC7YA225KE02#	
	25Vdc	X8L	1.5µF	±10%	GCM21BL8EF155KA07#	
		X7R	0.15µF	±10%	GCM21BR71E154KA37#	
			0.22µF	±10%	GCM21BR71E224KA37#	
			0.33µF	±10%	GCM21BR71E334KA37#	
			0.68µF	±10%	GCM21BR71E684KA55#	
			1.0µF	±10%	GCM21BR71E105KA56#	
			1.5µF	±10%	GCM21BR71E155KA54#	
			2.2µF	±10%	GCM21BR71E225KA73#	
	16Vdc	X7R	2.2µF	±10%	GCM21BR71C225KA64#	
			4.7µF	±10%	GCM21BR71C475KA73#	
	10Vdc	X7R	2.2µF	±10%	GCM21BR71A225KA37#	
			10µF	±10%	GCM21BR71A106KE22#	
		X7S	4.7µF	±10%	GCM21BC71A475KA73#	
	6.3Vdc	X7R	10µF	±10%	GCM21BR70J106KE22#	
1.45mm	100Vdc	X7S	1.0µF	±10%	GCM21BC72A105KE36#	
	35Vdc	X8L	4.7µF	±10%	GCM21BL8EG475KE08#	
		X7S	4.7µF	±10%	GCM21BC7YA475KE36#	
	25Vdc	X8L	4.7µF	±10%	GCM21BL8EF475KE08#	
		X7S	4.7µF	±10%	GCM21BC71E475KE36#	
	16Vdc	X7S	10µF	±10%	GCM21BC71C106KE36#	

## 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.2mm	100Vdc	X8L	4.7µF	±10%	GCM32DL8EL475KE07#	
		X7S	4.7µF	±10%	GCM32DC72A475KE02#	
	16Vdc	X7R	10µF	±10%	GCM32DR71C106KA37#	
2.7mm	50Vdc	X8L	10µF	±10%	GCM32EL8EH106KA07#	
		X7R	4.7µF	±10%	GCM32ER71H475KA55#	
		X7S	10µF	±10%	GCM32EC71H106KA03#	
	35Vdc	X7S	10µF	±10%	GCM32EC7YA106KA03#	
	25Vdc	X7R	10µF	±10%	GCM32ER71E106KA57#	
	16Vdc	X7R	22µF	±20%	GCM32ER71C226ME19#	
	10Vdc	X7R	22µF	±20%	GCM32ER71A226ME12#	
	6.3Vdc	X7R	47µF	±20%	GCM32ER70J476ME19#	
2.85mm	25Vdc	X8L	22µF	±10%	GCM32EL8EF226KE08#	
		X7S	22µF	±10%	GCM32EC71E226KE36#	

## 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.25mm	100Vdc	X7R	0.22µF	±10%	GCM31MR72A224KA37#	
	50Vdc	X7R	0.33µF	±10%	GCM31MR71H334KA37#	
			0.47µF	±10%	GCM31MR71H474KA37#	
			0.68µF	±10%	GCM31MR71H684KA55#	
1.8mm	100Vdc	X8L	2.2µF	±10%	GCM31CL8EL225KE07#	
		X7R	1.0µF	±10%	GCM31CR72A105KA03#	
		X7S	2.2µF	±10%	GCM31CC72A225KE02#	
	50Vdc	X7R	2.2µF	±10%	GCM31CR71H225KA55#	
		X7S	4.7µF	±10%	GCM31CC71H475KA03#	
	25Vdc	X7R	4.7µF	±10%	GCM31CR71E475KA55#	
	16Vdc	X7R	4.7µF	±10%	GCM31CR71C475KA37#	
			10µF	±10%	GCM31CR71C106KA64#	
	10Vdc	X7R	10µF	±10%	GCM31CR71A106KA64#	
			22µF	±10%	GCM31CR71A226KE02#	
	6.3Vdc	X7R	22µF	±20%	GCM31CR70J226ME23#	
1.9mm	25Vdc	X7S	10µF	±10%	GCM31CC71E106KA03#	

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