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 Ripple Current Chip Multilayer Ceramic Capacitors for Automotive				
	В	Ni Plating + Pd Plating termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive				
	D	MLSC Design Chip Multilayer Ceramic Capacitors for Automotive				
GC	E	Soft Termination MLSC Design Chip Multilayer Ceramic Capacitors for Automotive				
GC	G	AgPd Termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive				
	J	Soft Termination Chip Multilayer Ceramic Capacitors for Automotive				
	М	Chip Multilayer Ceramic Capacitors for Automotive				
	Q	High Q Chip Multilayer Ceramic Capacitors for Automotive				
GG	D	Water Repellent MLSC Design Chip Multilayer Ceramic Capacitors for Automotive				
dd	М	Water Repellent Chip Multilayer Ceramic Capacitors for Automotive				
GR	Т	AEC-Q200 Compliant Chip Multilayer Ceramic Capacitors for Infotainment				
GX	Т	AEC-Q200 Compliant Water Repellent Chip Multilayer Ceramic Capacitors for Infotainment				
	3	High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Multilayer Ceramic Capacitors for Automotive				
кс	Α	Safety Standard Certified Metal Terminal Type Multilayer Ceramic Capacitors for Automotive				
	М	Metal Terminal Type Multilayer Ceramic Capacitors for Automotive				

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

$\textbf{4} \textbf{Height Dimension (T) (Except KC} \square)$

Code	Dimension (T)			
2	0.2mm			
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			
М	1.15mm			
N	1.35mm			
Q	1.5mm			
X	Depends on individual standards.			

4Height Dimension (T) (**KC**□ Only)

Code	Dimension (T)
L	2.8mm
R	3.6mm
Q	3.7mm
Т	4.8mm
V	6.2mm
W	6.4mm

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5Temperature Characteristics

Temperature Characteristic Codes			Temperature Characteristics			Operating Temperature	Capacitance Change Each Temperature (%)							
Code	Public		Reference	Temperature	Capacitance Change or Temperature	Range	-55°C		*4		-10°C			
Code	STD Co	de	Temperature	Range	Coefficient		Max.	Min.	Max.	Min.	Max.	Min.		
oc	CHA	*2	20°C	20 to 150°C	0±60ppm/°C	–55 to 150°C	0.82	-0.45	0.49	-0.27	0.33	-0.18		
2C	СН	JIS	20°C	20 to 125°C	0±60ppm/°C	–55 to 125°C	0.82	-0.45	0.49	-0.27	0.33	-0.18		
3C	CJ	JIS	20°C	20 to 125°C	0±120ppm/°C	–55 to 125°C	1.37	-0.9	0.82	-0.54	0.55	-0.36		
4C	СК	JIS	20°C	20 to 125°C	0±250ppm/°C	–55 to 125°C	2.56	-1.88	1.54	-1.13	1.02	-0.75		
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		
				-55 to -40°C	-4700+1000/-2500ppm/°C	−55 to 125°C	-	-	-	-	ı	-		
9E	E ZLM	*2	20°C	-40 to 20°C	-5350±750ppm/°C		-	-	-	-	-	-		
96			Z	Z	Z	_	2010	20 to 85°C	-4700±500ppm/°C	-55 to 125 C	1	-	-	-
				85 to 125°C	-4700+2000/-1000ppm/°C		1	-	-	-	-	-		
C7	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	-	-	-	-	-	-		
M9	X9M	*2	25°C	-55 to 200°C	+15%, –50%	−55 to 200°C	-	-	-	-	-	-		
R1	R *1	JIS	20°C	-55 to 125°C	±15%	–55 to 125°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	1	-	-	-	-	-		

^{*1} Capacitance change is specified with 50% rated voltage applied.

6Rated Voltage

Co	de	
Standard Product	Voltage Derated Product	Rated Voltage
OE	-	DC2.5V
0G	-	DC4V
OJ	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 "R." In this case, all figures are significant digits.

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

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

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^{*2} Murata Temperature Characteristic Code.

^{*3} Rated Voltage 100Vdc max: 25 to 85°C

^{*4 –25°}C (Reference Temperature 20°C) / –30°C (Reference Temperature 25°C)

(Part Number)

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1	2	8	4	6	6	7	8	9	10

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Capacitance Tolerance

Code	Capacitance Tolerance			
В	±0.1pF			
С	±0.25pF			
D	±0.5pF (Less than 10pF)			
Ь	±0.5% (10pF and over)			
F	±1%			
G	±2%			
J	±5%			
K	±10%			
М	±20%			
R	Depends on individual standards.			
W	±0.05pF			

9Individual Specification Code Expressed by three figures.

Package

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.

单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)

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