Part Numbering

(Part Number)

Chip Multilayer Ceramic Capacitors for General



1 Product ID 2 Series

Product ID	Code	Series						
~	2	Based on the Electrical Appliance and Material Safety Law of Japan Chip Multilayer Ceramic Capacitors for General Purpose						
GA	3	Safety Standard Certified Chip Multilayer Ceramic Capacitors for General Purpose						
GC	н	Chip Multilayer Ceramic Capacitors for Implantable Medical Devices (Non Life Support Circuit)						
GJ	4	Low Distortion Chip Multilayer Ceramic Capacitors for General Purpose						
GJ	м	igh Q Chip Multilayer Ceramic Capacitors for General Purpose (≤100Vdc)						
GM	Α	Wire Bonding Mount Multilayer Microchip Capacitors for General Purpose						
an	D	Wire Bonding/AuSn Soldering Mount Chip Multilayer Ceramic Capacitors for General Purpose						
GQ	м	High Q Chip Multilayer Ceramic Capacitors for General Purpose (>100Vdc)						
	3	High Effective Capacitance & High Ripple Current Chip Multilayer Ceramic Capacitors for General Purpose						
	4	Chip Multilayer Ceramic Capacitors for Ethernet LAN and Primary-secondary coupling of DC-DC Converters						
GR		Chip Multilayer Ceramic Capacitors for Splitter Circuit of G-Fast, xDSL						
GR	J	Soft Termination Chip Multilayer Ceramic Capacitors for General Purpose						
	м	Chip Multilayer Ceramic Capacitors for General Purpose						
		Chip Multilayer Ceramic Capacitors for LCD Backlight Inverter Circuit only						
KR	3	High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose						
NR	м	Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose						
	Α	8 Terminals Low ESL Chip Multilayer Ceramic Capacitors for General Purpose						
LL	L	LW Reversed Low ESL Chip Multilayer Ceramic Capacitors for General Purpose						
	М	10 Terminals Low ESL Chip Multilayer Ceramic Capacitors for General Purpose						
	R	LW Reversed Controlled ESR Low ESL Chip Multilayer Ceramic Capacitors for General Purpose						
70	Α	Low Acoustic Noise Chip Multilayer Ceramic Capacitors on Interposer Board for General Purpose						
ZR	в	Low Acoustic Noise Chip Multilayer Ceramic Capacitors on Interposer Board for General Purpose						

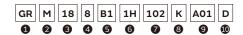
Ochip Dimensions (LxW) (Except ZRA)

Code	Dimensions (LxW)	EIA
01	0.25x0.125mm	008004
02	0.4x0.2mm	01005
0D	0.38x0.38mm	015015
MD	0.5x0.25mm	015008
03	0.6x0.3mm	0201
05	0.5x0.5mm	0202
08	0.8x0.8mm	0303
10	0.6x1.0mm	02404
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
JN	1.8x1.0mm	0704
21	2.0x1.25mm	0805
22	2.8x2.8mm	1111
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
42	4.5x2.0mm	1808
43	4.5x3.2mm	1812
52	5.7x2.8mm	2211
55	5.7x5.0mm	2220

Oimensions (LxW) (ZRA Only)

Code	Dimensions (LxW)
21	2.4x1.65mm

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(Part Number)

Continued from the preceding page. > Height Dimension (T) (Except KR)

Code	Dimension (T)
1	0.125mm
2	0.2mm
3	0.3mm
4	0.4mm
5	0.5mm
6	0.6mm
7	0.7mm
8	0.8mm
9	0.85mm
А	1.0mm
В	1.25mm
С	1.6mm
D	2.0mm
E	2.5mm
М	1.15mm
Q	1.5mm
т	0.18mm
х	Depends on individual standards.
Y	0.135mm

④Height Dimension (T) (KR□ Only)

Code	Dimension (T)
E	1.8mm
F	1.9mm
к	2.7mm
L	2.8mm
R	3.6mm
Q	3.7mm
т	4.8mm
v	6.2mm
W	6.4mm

Continued on the following page. earrow

(Part Number)

GR	м	18	8	B1	1H	102	к	A01	D
1	2	8	4	6	6	0	8	9	10

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GTemperature Characteristics

Temperature Temperature Characteristic Codes			racteristics	Operating	Capacitance Change Each Temperature (%)							
	Public		Reference	Temperature	Capacitance Change	Temperature Range	-5	5°C	*	4	-1	0°C
Code	STD Co	de	Temperature	Range	or Temperature Coefficient	Runge	Max.	Min.	Max.	Min.	Max.	Min.
1C	CG	JIS	20°C	20 to 125°C	0±30ppm/°C	–55 to 125°C	0.54	-0.23	0.33	-0.14	0.22	-0.09
1X	SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	–55 to 125°C	-	-	-	-	-	-
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
зc	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
зU	UJ	JIS	20°C	20 to 85°C	-750±120ppm/°C	–25 to 85°C	-	-	4.94	2.84	3.29	1.89
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
B1	B *1	JIS	20°C	–25 to 85°C	±10%	–25 to 85°C	-	-	-	-	-	-
В3	В	JIS	20°C	–25 to 85°C	±10%	–25 to 85°C	-	-	-	-	-	-
C6	X5S	EIA	25°C	–55 to 85°C	±22%	–55 to 85°C	-	-	-	-	-	-
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	Х7Т	EIA	25°C	–55 to 125°C	+22%, -33%	–55 to 125°C	-	-	-	-	-	-
D8	Х6Т	EIA	25°C	–55 to 105°C	+22%, -33%	–55 to 105°C	-	-	-	-	-	-
E7	X7U	EIA	25°C	–55 to 125°C	+22%, -56%	–55 to 125°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	-	-	-	-	-	-
R8	R *1	JIS	20°C	–25 to 85°C	±15%	–25 to 85°C	-	-	-	-	-	-
Z7	X7R	EIA	25°C	–55 to 125°C	±15% *5	–55 to 125°C	-	-	-	-	-	-

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

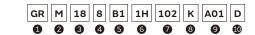
*2 Murata Temperature Characteristic Code.

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

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

*5 Range of capacitance change rate with 50% rated voltage applied (See detailed specifications sheet).

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(Part Number)

Continued from the preceding page. > GRated Voltage

	Code					
Standard Product	Voltage Derated Product	Rated Voltage				
OE	-	DC2.5V				
0G	-	DC4V				
LO	-	DC6.3V				
1A	-	DC10V				
1C	-	DC16V				
1E	-	DC25V				
1H	-	DC50V				
1J	-	- DC63V				
2A	-	DC100V				
2D	-	DC200V				
2E	-	DC250V				
2W	-	DC450V				
2H	-	DC500V				
2J	-	DC630V				
ЗА	LW	DC1kV				
3B	LX	DC1.25kV				
3D	-	DC2kV				
ЗF	-	DC3.15kV				
E2	-	AC250V				
GB	- X2; AC250V (Safety Standard Certified Type Gi					
GD	-	Y3; AC250V (Safety Standard Certified Type GD)				
GF	-	Y2, X1/Y2; AC250V (Safety Standard Certified Type GF)				
YA	-	DC35V				

Capacitance

Expressed by three-digit alphanumerics. The unit is picofarad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which 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 alphabet, other than "**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

8 Capacitance Tolerance

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

Ondividual Specification Code (Except LLR) Expressed by three figures.

SESR (LLR Only)

Code	ESR
E01	100mΩ
E03	220mΩ
E05	470mΩ
E07	1000mΩ

Packaging

Code	Packaging		
L	ø180mm Embossed Taping		
D/E/W	ø180mm Paper Taping		
к	ø330mm Embossed Taping		
J/F	ø330mm Paper Taping		
т	Bulk Tray		

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)