Part Numbering

Chip Multilayer Ceramic Capacitors for General

(Part Number) GR M 18 8 B1 1H 102 K A01 D

1 Product ID 2 Series

Product ID	Code	Series							
GA	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	ow Distortion Chip Multilayer Ceramic Capacitors for General Purpose							
GJ	М	ligh Q Chip Multilayer Ceramic Capacitors for General Purpose							
GM	Α	Wire Bonding Mount Multilayer Microchip Capacitors for General Purpose							
GM	D	Wire Bonding/AuSn Soldering Mount Chip Multilayer Ceramic Capacitors for General Purpose							
GQ	М	High Q and High Power Chip Multilayer Ceramic Capacitors for General Purpose							
	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							
	141	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							
IXIX	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							
LL	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							
ZR	Α	Chip Multilayer Ceramic Capacitors on Interposer Board for General Purpose							
ZR	В	Chip Multilayer Ceramic Capacitors on Interposer Board for General Purpose							

3Chip Dimensions (LxW) (Except ZRA)

Code	Dimensions (LxW)	EIA
01	0.25x0.125mm	008004
02	0.4x0.2mm	01005
OD	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

3Dimensions (LxW) (ZRA Only)

Code	Dimensions (LxW)
21	2.4x1.65mm

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G	R	М	18	8	В1	1H	102	ĸ	A01	D
1		2	8	4	6	6	7	8	9	10

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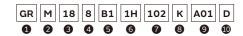
4 Height Dimension (T) (Except KR□)

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
Α	1.0mm
В	1.25mm
С	1.6mm
D	2.0mm
E	2.5mm
М	1.15mm
Q	1.5mm
S	2.8mm
X	Depends on individual standards.
Υ	0.135mm

4Height Dimension (T) (**KR**□ Only)

Code	Dimension (T)
E	1.8mm
F	1.9mm
K	2.7mm
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	Capacitance Change Each Temperature (%)						
Code	Public STD Co		Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	Temperature Range	−55°C Max. Min.		*4 Max. Min.		-10°C 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
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
3U	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	-	-	-	-	-	-
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	-	-	-	-	-	-
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.

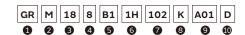
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 $^{^{*}2}$ Murata Temperature Characteristic Code.

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

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

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



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6Rated Voltage

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

7Capacitance

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.

F	v	•

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)
В	±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 (Except **LLR**) Expressed by three figures.

9ESR (**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
K	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)

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