GR	M	18	8	B1	1H	102	K	A01	D
❶	❷	❸	❹	❺	❻	❼	❽	❾	❿

❶ Product ID ❷ Series

Product ID	Code	Series
GA	2	Based on the Electrical Appliance and Material Safety Law of Japan Chip MuLtilayier Ceramic Capacitors for General Purpose
	3	Safety Standard CjertrfiGdl Chip Multilayer Ceramic Capacitors for General Purpose
GJ	M	High Q Chip Multilayer Ceramic Capacitors for General Purpose
GM	A	Wire Bonding Mount MultilaYer Microchip Capac^ors fo 『General Purpose
	D	Wire Bonding/AuSn Soldering Mount Chip Muttilay&rCeramic Capacitors forGerwral Purpose
GQ	M	High Q and High Power Chip Myltilayer Ceramic Capacitors For General Purpose
GR	3	High Effective Capacitance 4 High Ripple Current Chip Multilayer Ceramic Capacitors for General Purpose
	4	Chip Multilayer Ceramic Capacitors for Camera Flash Circuit only
	7	Chip Multillayer Ceramic Capacitors fbr Ethernet LAN and Primary-secondary Coupling of DC-DC Conyerters
	J	Soft Termirfeati&n Chip Multilayer Ceramic Capacitors for General Purpose
	M	Chip Mu titayerCeramic Capacitorsfb 『General Purpose
KR	3	High Effective Capacitance & High Allwable Rippte Current Meta? TerminaJ Type MdtiLayer Ceramic Capacitors for General Purpose
	M	Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose
LL	A	8 Terminals Low ESL Chip MuftUayer Ceramic: Capacitors for General Purpose
	L	LW Reversed Low ESL Chip Multilayier Ceramic Capacftors for General Purpose
	M	10 Terminals Low ESL Chip Myttilayer Ceramic Capacitors for General Purpose
	R	LW Reversed Controlled ESR Low ESL Chip Multilayer Ceramic Capacitors for General Purpose

❸ Chip Dimensions(LXW)

Code	Dimensions(LXW)	EIA
02	0.4x0.2mm	01005
0D	0.38x0.38mm	015015
03	0.6x0.3mm	0201
05	0.5x0.5mm	0202
08	0.8x0.8mm	0303
1U	0.6x1.0mm	02404
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
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

GR	M	18	8	B1	1H	102	K	A01	D
❶	❷	❸	❹	❺	❻	❼	❽	❾	❿

❹ Height Dimension(T)(Except KP)

Code	Dimenslon(T)
2	0.2mm
3	0.3mm
4	0.4mm
5	0.5mm
6	0.6mm
7	0.7mm
8	0.8mm
9	0.85mm
A	1.0mm
B	1.25mm
C	1.6mm
D	2.0mm
E	2.5mm
M	1.15mm
Q	1.5mm
X	Depends on indmidual standards

❹ Height Dimension(T)(KP Only)

Code	Dimenslon(T)
E	1.8mm
F	1.9mm
K	2.7mm
L	2.8mm
Q	3.7mm
T	4.8mm
W	6.4mm

❺ Temperature Characteristics

Temperature Characteristlc Codes			Temperature Characteristics			Operatlng Temperature Range	Capacltance Change Each Temperature(%)					
Code	Public STD Code		Reference Temperature	Temperature Range	Capacltance Change or Temperature Coettcient		-55℃		*6		-10℃	
							Max.	Min.	Max.	Min.	Max.	Min.
1X	SL	JIS	20℃	20 to 85℃	+350to-1000ppm/℃	-55 to 125℃	-	-	-	-	-	-
2C	CH	JIS	20℃	20 to 125℃	0±60ppm/℃	-55 to 125℃	0.82	-0.45	0.49	-0.27	0.33	-0.18
3C	CJ	JIS	20℃	20 to 125℃	0±120ppm/℃	-55 to 125℃	1.37	-0.9	0.82	-0.54	0.55	-0.36
3U	UJ	JIS	20℃	20 to 85℃	-750±120ppm/℃	-55 to 85℃	-	-	4.94	2.84	3.29	1.89
4C	CK	JIS	20℃	20 to 125℃	0±250ppm/℃	-55 to 125℃	2.56	-1.88	1.54	-1.13	1.02	-0.75
5C	COG	EIA	25℃	20 to 125℃	0±30ppm/℃	-55 to 125℃	0.58	-0.24	0.4	-0.17	0.25	-0.11
5G	XBG	*2	25℃	20 to 150℃	0±30ppm/℃	-55 to 150℃	0.58	-0.24	0.4	-0.17	0.25	-0.11
7U	U2J	EIA	25℃	20 to 125℃*3	-750±120ppm/℃	-55 to 125℃	8.78	5.04	6.04	3.47	3.84	2.21
B1	B*1	JIS	20℃	-25 to 85℃	±10%	-55 to 85℃	-	-	-	-	-	-
B3	B	JIS	20℃	-25 to 85℃	±10%	-55 to 85℃	-	-	-	-	-	-
C7	X7S	EIA	25℃	-55 to 125℃	±22%	-55 to 125℃	-	-	-	-	-	-
C8	X6S	EIA	25℃	-55 to 105℃	±22%	-55 to 105℃	-	-	-	-	-	-
D7	X7T	EIA	25℃	-55 to 125℃	+22%,-33%	-55 to 125℃	-	-	-	-	-	-
D8	X6T	EIA	25℃	-55 to 105℃	+22%,-33%	-55 to 105℃	-	-	-	-	-	-
E7	X7U	EIA	25℃	-55 to 125℃	+22%,-56%	-55 to 125℃	-	-	-	-	-	-
R1	R*1	JIS	20℃	-55 to 125℃	±15%	-55 to 125℃	-	-	-	-	-	-
R6	X5R	EIA	25℃	-55 to 85℃	±15%	-55 to 85℃	-	-	-	-	-	-
R7	X7R	EIA	25℃	-55 to 125℃	±15%	-55 to 125℃	-	-	-	-	-	-
WO	X7T	EIA	25℃	-55 to 125℃	±10%*4	-55 to 125℃	-	-	-	-	-	-
					+22%,-33%*5		-	-	-	-	-	-

❻ Rated Voltage

Code	Rated Vlotage
OE	DC2.5V
OG	DC4V
OJ	DC6.3V
1A	DC10V
1C	DC16V
1E	DC25V
1H	DC50V
1J	DC63V
1K	DC80V
2A	DC100V
2D	DC200V
2E	DC250V
2W	DC450V
2H	DC500V
2J	DC630V
3A	DC1KV
3D	DC2KV
3F	DC3.15KV
BB	DC350V
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

❼ Capacitance

Expressed by three-digit alphanumerics.The unit is picofarad (pF). The first and second figures are significant digtits, 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.

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

❽ Capacitance Tolerance

Code	Capacitance Tolerance
B	±0.1pF
C	±0.25pF
D	±0.5PF(Less than 10pF)
	±0.5%(10pF and over)
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%
W	±0.05%pF

❾ Individual Specification Code(Except LLR)
Expressed by three figures.

❾ ESR(LLR Only)

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

❿ Packaging

Code	Packaging
L	ϕ108mm Embossed Taping
D/E/W	ϕ180mm Paper Taping
K	ϕ330mm Embossed Taping
J/F	ϕ330mm Paper Taping
T	Bulk Tray