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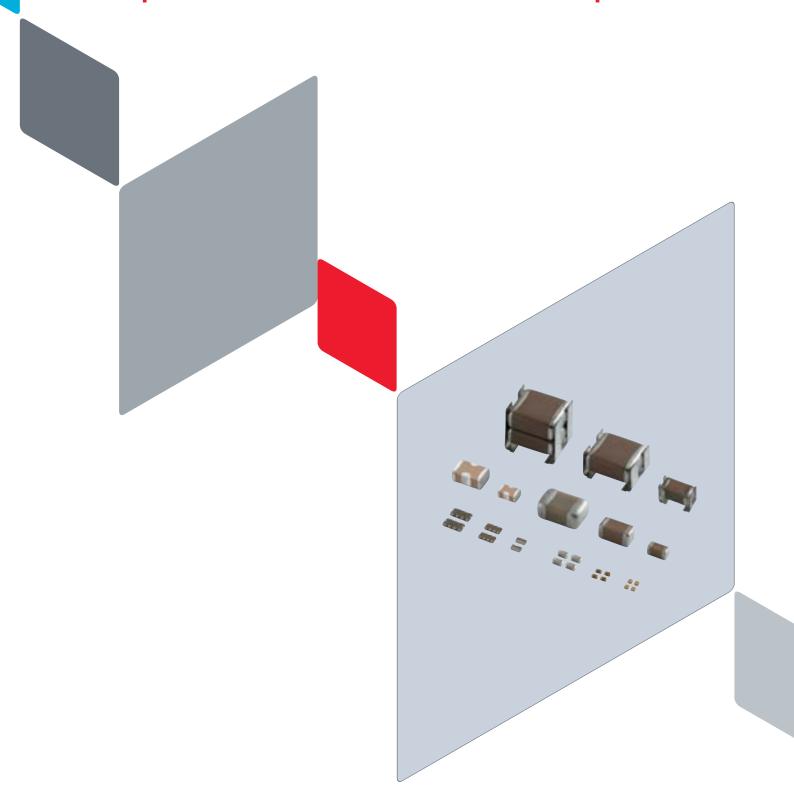








Chip Monolithic Ceramic Capacitors



EU RoHS Compliant

- $\mbox{\ }^{\bullet}$ All the products in this catalog comply with EU RoHS.
- EU RoHS is "the European Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment."
- For more details, please refer to our website 'Murata's Approach for EU RoHS' (http://www.murata.com/en-eu/support/compliance/rohs).

Qualified Standards

- The products listed here have been produced by ISO 9001 certified factory.
- <Plant>
- Fukui Murata Mfg. Co., Ltd.
- Izumo Murata Mfg. Co., Ltd.
- Murata Electronics Singapore (Pte.) Ltd.
- Wuxi Murata Electronics Co., Ltd.
- PHILIPPINE MANUFACTURING CO. OF MURATA, INC.



Product specifications are as of August 2016.

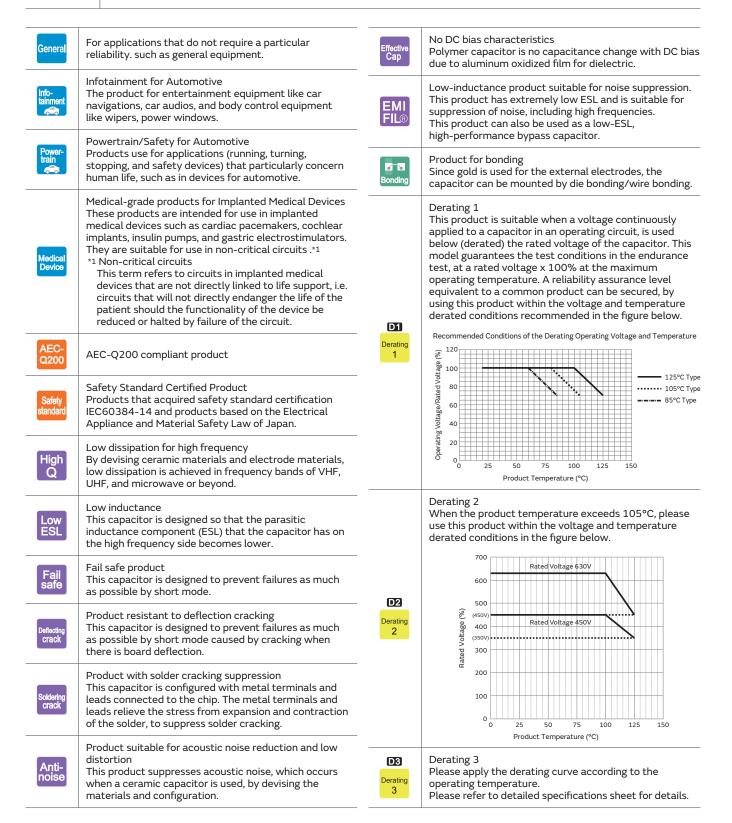
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Please check the MURATA website (http://www.murata.com/) if you cannot find a part number in this catalog.

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.

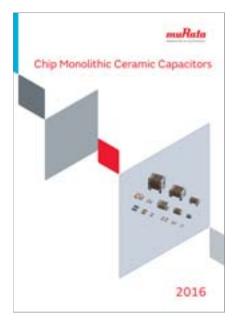


Selection Guide for Capacitors

			AEC- Q200	Safety standard	High Q	Low	Anti- noise	Fail safe	Deflecting crack	Soldering crack	Effective Cap	EMI FIL®	Other
General	GRM	P24											
	GRM	WEB 🖢											For LED backlight only
	GA2	WEB 🖢											
	GA3	WEB 🖢											
	GJM	P91											
	GMA	P113											Wire bondable
	GMD	P116											Wire bondable
	GQM	P119											
	GR3	P130											
	GR4	WEB 🖢											For communication / information devices
	GR7	WEB 🖢											Limited to camera flashes
	GRJ	P132											
	KR3	P147											
	KRM	P144											
	LLA	P136											
	LLL	P138											
	LLM	P140											
	LLR	P142											
	NFM	P150											
	DE1	WEB 🖢											
	DE2	WEB 🖢		E									
	DEJ	WEB 🖢											
	DHR	WEB 🖢											
	RDE	WEB 🖢											
	DHK	WEB 🖢											
	DHS	WEB 🖢											
	ECAS	WEB 🖢									•		
Medical Device	GCH	P152											For Implanted Medical Devices
Info- tainment	GRT	WEB 🖢											
Power-train	GCM	WEB 🖢											
~	GC3	WEB 🍆											
	GCD	WEB 🖢											
	GCE	WEB \											
	GCG	WEB 🖢											Limited to conductive glue mounting
	GCJ	WEB 🖢											
	ксз	WEB 🖢											
	KCA	WEB 🖢											
	ксм	WEB 🖢											
	NFM	WEB 🖢											
	DE6	WEB 🖢											
	RCE	WEB \											
	RH	WEB 🖢											

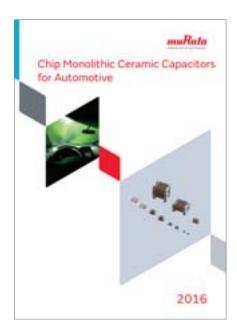
Catalog information

Catalog relates to a multilayer ceramic capacitor is below.



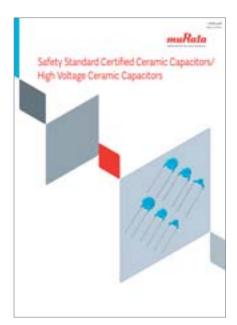
Chip Monolithic Ceramic Capacitors

Cat No. C02E-20



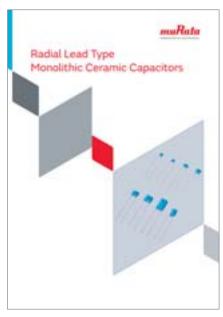
Chip Monolithic Ceramic Capacitors for Automotive

Cat No. C03E-9



Safety Certified Ceramic Capacitors/ High Voltage Ceramic Capacitors

Cat No. C85E-5



Radial Lead Type

Monolithic Ceramic Capacitors

Cat No. C49E-23

Part Numbering

Chip Monolithic Ceramic Capacitors for General



(Part Number)

GR M 18 8 B1 1H 102 K A01 D

9 9 9 9 9 9 9 9

1 Product ID 2 Series

Product ID	Code	Series			
GC	Н	For implantable medical devices (Non-critical circuits)			
GJ	М	High Q type for high frequency			
GM	Α	Wire bondable vertical electrode type			
GM	D	Wire bondable/AuSn solderable type			
GQ	М	High Q type for high frequency and high power			
	3	High effective capacitance & High allowable ripple current			
GR	J	Soft termination type			
	М	General purpose products			
KR	3	Metal terminal type/High effective capacitance & High allowable ripple current			
KK	М	Metal terminal type			
	Α	8 terminal low ESL type			
LL	L	LW reversed low ESL type			
LL	М	10 terminal low ESL type			
	R	ESR controlled low ESL type			

3Chip 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
10	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
55	5.7x5.0mm	2220

Continued on the following page. \nearrow

(Part Number)

GR M 18 8 B1 1H 102 K A01 D

1 2 3 3 5 6 7 8 9 0

Continued from the preceding page. \searrow

4 Height Dimension (T) (Except $\mathbf{KR}\square$)

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				
х	Depends on individual standards.				

4 Height Dimension (T) (KR□ Only)

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

5Temperature Characteristics

	o remperature characteristics											
Temperature Temperature Characteristics			Operating	Capacitance Change Each Temperature				re (%)				
Code	Public Reference		ublic Reference Temperature Capacitance Change or Temperature	Temperature Range	−55°C		*4		-10°C			
Code	STD Co	de	Temperature	Range	Coefficient		Max.	Min.	Max.	Min.	Max.	Min.
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	Cl	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	-	-	-	-	-	-
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	-	-	-	-	-	-
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	-	-	ı	-	ı	-

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

Continued on the following page. ${ \nearrow \hspace*{-.8em} /}$

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

 $^{^{\}star}3$ Rated Voltage 100Vdc max: 25 to 85°C

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

(Part Number)

GR M 18 8 B1 1H 102 K A01 D

Continued from the preceding page. \searrow

6Rated Voltage

Code	Rated Voltage
OE	DC2.5V
0G	DC4V
٥٦	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
ЗА	DC1kV
3D	DC2kV
3F	DC3.15kV
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)				
Ь	±0.5% (10pF and over)				
F	±1%				
G	±2%				
J	±5%				
K	±10%				
М	±20%				
W	±0.05pF				

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

9ESR (**LLR** Only)

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

Packaging

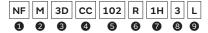
Code	Packaging			
L	ø180mm Embossed Taping			
D/E/W	ø180mm Paper Taping			
K	ø330mm Embossed Taping			
J/F	J/F ø330mm Paper Taping			
В	Bulk			
С	Bulk Case			
Т	Bulk Tray			

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

3 Terminal Low ESL Monolithic Ceramic Capacitors



(Part Number)



1 Product ID 2 Series

Product ID	Series
NFM	3 Terminal Low ESL Type

3Dimensions (LxW)

Code	Dimensions (LxW)	EIA
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
3D	3.2x1.25mm	1205
31	3.2x1.6mm	1206
41	4.5x1.6mm	1806

4 Features

Code	Fe	atures
СС		For Signal Lines
PC		For Large Current
PS	For General	High Insertion Loss Type for Large Current
кс		For Very Large Current

GCapacitance

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.

6Characteristics

Code	Capacitance Temperature Characteristics
В	±10%, ±12.5%, +10/-13%
С	±22%
D	+22/-33%
F	+30/-80%, +30/-84%
R	±15%, +15/-18%

7Rated Voltage

Code	Rated Voltage
0E	2.5V
0G	4V
01	6.3V
1A	10V
1C	16V
1E	25V
1H	50V
2A	100V

8 Electrode

Code	Electrode
3	Sn Plating

Packaging

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

P00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

How to read the Capacitance Table

L×W (mm)	0.4	×0.2			0.6	_		
T max. (mm)	0.:	22			0			The values can be narrowed down in the order of size,
Rated Voltage (Vdc)	2	5		5	0			rated voltage, and temperature characteristics.
Cap. / TC Code	COG	СД	COG	СК	CJ	_		
0.10pF						_		
0.20pF	p92	p95	p98	p98				
1.0pF	p92	p95		p98			-	Refers to the page of the part number list. Check the part number list for the applicable product number.
2.0pF	p92	p95		p98				and applicable product names.
3.0pF	p92	p95			p98			

Temperature Characteristics Table

The Table is colored by temperature characteristic codes. Refer to the following Table for the meaning of each code. X6S X6T X5R В

Murata Temperature Characteristic: X8G

Temperatur Characteristic C		Те	mperature Char	acteristics	Operating	Capacitance Change Each Temperature (%)										
Public		Reference	Temperature	Capacitance Change	Temperature Range	-5	5°C	*	3	-10	0°C					
STD Code		Temperature	Range	or Temperature Coefficient		Max.	Min.	Max.	Min.	Max.	Min.					
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					
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					
Cl	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					
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					
SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	–55 to 125°C	-	-	-	-	-	-					
U2J	EIA	25°C	25 to 125°C *2	-750±120ppm/°C	–55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21					
ΟΊ	JIS	20°C	20 to 85°C	-750±120ppm/°C	-25 to 85°C	-	-	4.94	2.84	3.29	1.89					
X8G	*1	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					
X7R	EIA	25°C	-55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-					
X7S	EIA	25°C	-55 to 125°C	±22%	–55 to 125°C	-	-	-	-	-	-					
X7T	EIA	25°C	-55 to 125°C	+22%, -33%	–55 to 125°C	-	-	-	-	-	-					
X7U	EIA	25°C	-55 to 125°C	+22%, –56%	–55 to 125°C	-	-	-	-	-	-					
R	JIS	20°C	-55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-					
X6S	EIA	25°C	-55 to 105°C	±22%	-55 to 105°C	-	-	-	-	-	-					
X6T	EIA	25°C	-55 to 105°C	+22%, -33%	-55 to 105°C	-	-	-	-	-	-					
X5R	EIA	25°C	-55 to 85°C	±15%	−55 to 85°C	-	-	-	-	-	-					
В	B JIS 20°C		-25 to 85°C	±10%	–25 to 85°C	-	-	-	-	-	-					

^{*1} Murata Temperature Characteristic Code.

^{*2} Rated Voltage 100Vdc max: 25 to 85°C

^{*3 –25°}C (Reference Temperature 20°C) / –30°C (Reference Temperature 25°C)

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

GRM Series Temperature Compensating Type

p00 ← Part Nun	nber L	ist	JIS:	СК	C1	CH	SI		רו	EIA	A: C0	G U	2J														
L×W (mm)				×0.2						×0.3					:	1.0×0.	5						1.6	×0.8			
T max. (mm) Rated Voltage (Vdc)	5	0		22	1	.6	10	00		33	2	25	10	00	5	0.55		10			50	0	.5	10		0.	
Cap. / TC Code	COG	СД	COG	_	COG		COG	СД	COG	СД	COG		COG	СД	COG		SL	U2J	UJ	SL	U2J	UJ	SL	U2J	UJ	COG	
0.10pF							p32	p35	p38	p41			p45	p48	p52	p55											
0.20pF	p25	p28					p32	p35	p38	p41			p45	p48 p49	p52	p55					for ev					»EO	p63
0.50pF 1.0pF	p25	p28					p32	p35	p38	p41			p45 p45	p49 p49	p52	p55					or les					p59 p60	p63
2.0pF	p25	p28					p32	p35	p38	p42			p46	p49	p52	p56		deta		ne Pa	art Nu	mber	LISU	or		p60	p63
3.0pF	p25	p29					p32	p35	р39	p42			p46	p49	p53	p56	_				:		:			p60	p63
4.0pF	p26	p29					р33	р36	p39	p42			p46	p49	p53	p56										p60	p64
5.0pF	p26	p29					p33	p36	p39	p43			p46	p50	p53	p57										p61	p64
6.0pF 7.0pF	p26 p27	p30 p30					p33 p34	p36 p37	p40 p40	p43			p47	p50 p50	p53 p54	p57										p61 p61	p64 p65
8.0pF	p27	p30					p34	p37	p40	p44			p47	p51	p54	p58										p62	p65
9.0pF	p27	p31					p34	p37	p41	p44			p48	p51	p55	p58										p62	p65
10pF	p28	p31					р35	р38	p41	p44			p48	p52	p55	p59										p63	p66
11pF	p28	p31																									
12pF	p28 p28	p31					p35	p38	p41	p44			p48	p52	p55	p59										p63	p66
13pF 15pF	p28	p31					p35	p38	p41	p44	i		p48	p52	p55	p59	i									p63	p66
16pF	p28	p31												,													
17pF	p28	p31																									
18pF	p28	p31							p41	p45			p48	p52	p55	p59										p63	p66
19pF	p28	p31																									
20pF 21pF	p28 p28	p31																									
22pF	p28	p31							p41	p45			p48	p52	p55	p59										p63	p66
23pF	p28	p31																									
24pF	p28	p31																									
27pF	p28	p31							p41	p45			p48	p52	p55	p59										p63	p66
30pF 33pF	p28 p28	p31							p41	p45	i		p48	p52	p55	p59										p63	p66
36pF	p28	p31							P	рчэ			рчо	psz	рээ	pss										роз	роо
39pF	p28	p31							p41	p45			p48	p52	p55	p59										p63	p66
43pF	p28	p31																									
47pF	p28	p31							p41	p45			p48	p52	p55	p59										p63	p66
51pF	p28	p31							p41	-4F	i		- 40	5-2	-55	-50	i									62	
56pF 62pF	p28 p28	p31							P41	p45			p48	p52	p55	p59										p63	p66
68pF	p28	p31							p41	p45	İ		p48	p52	p55	p59										p63	p66
75pF	p28	p31																									
82pF	p28	p31							p41	p45			p48	p52	p55	p59										p63	p66
91pF	p28	p31																									
100pF 120pF	p28	p31	p31	p31	p31	p31			p41	p45 p45			p48	p52	p55 p55	p59										p63 p63	p66
150pF			p31	p31	p31	p31			p41	p45					p55	p59										p63	p66
180pF			p31	p31	p31	p32			p41	p45					p55	p59										р63	p66
220pF			p31	p31	p31	p32			p41	p45					p55	p59										p63	p66
270pF											p45	p45			p55	p59										p63	p66
330pF 390pF											p45	p45			p55	p59										p63	p66
470pF											p45	p45			p55	p59										p63 p63	p66
560pF											p45	p45			p55	p59										p63	p66
680pF											p45	p45			p55	p59										p63	p66
820pF											p45	p45			p55	p59										p63	p66
910pF 1000pF											p45 p45	p45			p55	p59										p63	p66
1000pF 1200pF											P#5	P45			PSS	Pog	p59	p59	p59							p63	p66
1500pF																	p59	p59	p59							p63	p66
1800pF																	p59	p59	p59								
2200pF																	p59	p59	p59	p59	p59	p59					
2700pF 3300pF																	p59	p59 p59	p59 p59	p59	p59 p59	p59					
3900pF																	p59	p59	p59	p59 p59	p59	p59					
4700pF																	p59	p59	p59	p59	p59	p59					
5600pF																							p59	p59	p59		
6800pF																							p59	p59	p59		
8200pF																							p59	p59	p59		
10000pF 12000pF																							p59	p59	p59		
15000pF																											
18000pF																											
22000pF																											
27000pF																											
33000pF 39000pF																											
47000pF																											
56000pF																											
68000pF																											
82000pF																											
0.10μF																											
0.12μF					<u> </u>	<u> </u>			i			:					<u> </u>						i	<u> </u>			

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series Temperature Compensating Type)

p00 ← Part Nur	nber L	ist '	JIS:	CK	CJ	CH	i Si		וו 17 – אי	EIA	(: C0	G U	2.J														
L×W (mm)					×0.8												2	.0×1.2	:5								
T max. (mm)				0								0.7							0.	95					1.)	
Rated Voltage (Vdc)			50				10		10	00			50					50				10		25	0	20	0
Cap. / TC Code	COG	СД	SL	U2J	UJ	SL	U2J	UJ	COG	СН	COG	СН	SL	U2J	UJ	COG	СН	SL	U2J	UJ	SL	U2J	UJ	COG	U2J	COG	U2J
0.10pF																											
0.20pF		p69																									
0.50pF 1.0pF	p66	p69																									
2.0pF	p66	p70																									
3.0pF	p67	p70																									
4.0pF	p67	p70																									
5.0pF	p67	p71																									
6.0pF 7.0pF	p68 p68	p71																									
8.0pF	p68	p72																									
9.0pF	p69	p72																									
10pF	p69	p73																						p74		p75	
11pF																									i		
12pF 13pF	p69	p73																						p74		p75	
15pF	p69	p73	İ																					p74	İ	p75	
16pF																											
17pF																											
18pF	p69	p73																						p74		p75	
19pF 20pF																											
21pF																											
22pF	p69	p73																						p74		p75	
23pF																											
24pF 27pF	60	-70																						-74	i	- 75	
30pF	p69	p73																						p74		p75	
33pF	p69	p73	İ																					p74	İ	p75	
36pF																											
39pF	p69	p73																						p74		p75	
43pF 47pF	p69	n72	i																					n7.1	i	p75	
51pF	роэ	p73																						p74		р/э	
56pF	p69	p73	İ																					p74	İ	p75	
62pF																											
68pF	p69	p73																						p74	- 1	p75	
75pF 82pF	p69	p73																						p74	i	p75	
91pF	роэ	p/3																						p/4	-	р/э	
100pF	p69	p73							p73	p74														p74	p74	p75	p75
120pF	p69	p73							p73	p74														p74	p74	p75	p75
150pF	p69	p73							p73	p74														p74	p74	p75	p75
180pF 220pF	p69 p69	p73							p73 p73	p74 p74														p74 p74	p74 p74	p75 p75	p75
270pF	p69	p73							p73	p74														p74	p74	p75	p75
330pF	p69	p73							p73	p74														p74	p74	p75	p75
390pF	p69	p73							p73	p74														p74	p74		p75
470pF 560pF	p69 p69	p73							p73 p73	p74 p74														p74	p75 p75		p75 p75
680pF	p69	p73							p73	p74														p74	p75	- 1	p75
820pF	p69	p73							p73	p74														p74	р75		p75
910pF																											
1000pF	p69	p73			p73				p73	p74														p74	p75		p75
1200pF 1500pF	p69 p69	p73	p73	p73	p73				p73 p73	p74 p74	p74	p74												p74	p75 p75		p75
1800pF	p69	p73	p73	p73	p73				p74	p74	p74	p74												p74	p75		p75
2200pF	p69	p73	p73	p73	p73				p74	p74	p74	p74												p74	p75		p75
2700pF	p69	p73	p73	p73	p73				p74	p74	p74	p74												p74			
3300pF 3900pF	p69 p69	p73	p73	p73 p73	p73				p74	p74	p74	p74															
4700pF	p69	p73	p73	p73	p73						p74	p74															
5600pF	p69	p73	p73	p73	p73											p74	p74										
6800pF	p69	p73	p73	p73	p73											p74	p74										
8200pF 10000pF	p69 p69	p73	p73	p73	p73										p74	p74	p74 p74										
12000pF	- 609	Pro	p/3	p73	p73	p73	p73	p73					p74	p74	p74	p74	p74										
15000pF						p73	p73	p73					p74	p74	p74	p74	p74										
18000pF						p73	p73	p73					p74	p74	p74												
22000pF						p73	p73	p73										p74	p74	p74							
27000pF 33000pF																		p74	p74	p74							
39000pF																											
47000pF																											
56000pF																					p74	p74	p74				
68000pF																											
82000pF 0.10μF																											
0.10µF																											

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series Temperature Compensating Type)

p00 ← Part Nun	nber L	ist	JIS:	СК	C1	CH	d SI		רו	EIA	A: C0	G U	2.1														
L×W (mm)							2.0×													3	3.2×1.6	5					
T max. (mm)		1.0				FO	1.	35		10		2.0	1.45	300	1/	20	T	0.95	F0			3000	10		0	30	F00
Rated Voltage (Vdc) Cap. / TC Code	SL	50 U2J	UJ	COG	СН	50 SL	U2J	UJ	SL	10 U2J	UJ		U2J	200 U2J	COG	00	COG	СН	50 SL	U2J	UJ	2000 U2J		U2J		30 U2J	500 C0G
0.10pF	JL.	023	03	COG	СП	J.L	023	03	JL.	023	03	COG	023	023	COG	СП	COG	СП	J.L	023	03	023	COG	023	COG	023	COG
0.20pF																											
0.50pF																											
1.0pF																											
2.0pF					İ											i				i							
3.0pF																											
4.0pF																											
5.0pF																											
6.0pF																											
7.0pF																											
8.0pF																											
9.0pF																											
10pF																						p76	p76	p76	p76	p76	p77
11pF 12pF					1																	p76	p76	p76	p76	p76	n77
13pF																						р/б	p/6	р/б	p/6	р/б	p77
15pF																						p76	p76	p76	p76	p76	p77
16pF																											
17pF																											
18pF																						p76	p76	p76	p76	p76	p77
19pF																											
20pF																											
21pF																											
22pF																						p76	p76	p76	p76	p77	p77
23pF																											
24pF																											
27pF 30pF																						p/6	p76	p76	p76	p77	p77
33pF																						p.76	p76	p76	p76	p77	p77
36pF																						p, c	pro	p/ C	pro	Pri	p//
39pF																						p76	p76	p76	p76	p77	p77
43pF																											•
47pF																						p76	p76	p76	p76	p77	p77
51pF																											
56pF																						p76	p76	p76	p76	p77	p77
62pF																											
68pF																						p76	p76	p76	p76	p77	p77
75pF																							_	_			
82pF																							p76	p76	p76	p77	p77
91pF 100pF																							-76	p76	76		77
120pF																							p76	p76	p76	p77	p77
150pF																							p76	p76	p76	p77	p77
180pF																							p76	p76		p77	p77
220pF																							p76	p76	p76	р77	p77
270pF																							p76	p76	p76	p77	p77
330pF																							p76	p76	p76	p77	p77
390pF																							p76		p76	p77	p77
470pF																							p76		p76	p77	p77
560pF																									p76	p77	p77
680pF																										p77	
820pF																										p77	
910pF 1000pF																										p77	
1200pF																									p76	p77	
1500pF																									p76	p77	
1800pF															p75	p75									p76	p77	
2200pF															p75	p75										р77	
2700pF													p75	p75	p75	p75											
3300pF												p75	p75	p75	p75	p75											
3900pF												p75	p75	p75	p75	p75											
4700pF												p75	p75	p75	p75	p75											
5600pF													p75	p75	p75	p76											
6800pF															p75	p76											
8200pF															p75	p76											
10000pF 12000pF															p75	p76	p76	p76	i								
15000pF															p75	p76	p76	p76									
18000pF				p75	p75	İ									p75	p76	p76	p76									
22000pF				p75	p75										p75	p76	p76	p76									
27000pF															p75	p76	p76	p76									
33000pF	p75	p75	p75												p75	p76	p76	p76									
39000pF						p75	p75	p75							p75	p76	p76	p76									
47000pF						p75	p75	p75																			
56000pF																			p76	p76	p76			L			
68000pF									p75	p75	p75																
82000pF 0.10μF									p75	p75	p75																
0.10µF									P13	27.5	P/3																
5.12рі				-		-	-				-			-		-	-	-					-			نـــــــــــــــــــــــــــــــــــــ	

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series Temperature Compensating Type)

p00 ← Part Nur	nber L	ist	JIS:	СК	CJ	CH	SI	L	JJ	EIA	A: C0	G U	2J														
L×W (mm)														3.2×1.0	5												
T max. (mm) Rated Voltage (Vdc)	500		.0	200	10	00	6.	30	50	20	21	1. 50	200	10	00			50			10	000	67	1.8	500	25	
Cap. / TC Code	U2J		U2J	U2J	_		_		cog			_	U2J	COG	_	COG	СН	SL	U2J	UJ	COG		COG			COG	
0.10pF																											
0.20pF																											
0.50pF 1.0pF																											
2.0pF																											
3.0pF																											
4.0pF																											
5.0pF 6.0pF																											
7.0pF																											
8.0pF																											
9.0pF 10pF	p77																										
11pF																											
12pF	p77																										
13pF 15pF	p77																										
16pF																											
17pF																											
18pF 19pF	p77																										
20pF																											
21pF																											
22pF 23pF	p77																										
24pF																											
27pF	p77																										
30pF 33pF	p77																										
36pF	рии																										
39pF	p77																										
43pF 47pF	p77																										
51pF	ртт																										
56pF	p77																										
62pF 68pF	p77																										
75pF	рии																										
82pF	p77																										
91pF 100pF	p77																										
120pF	p77																										
150pF	p77																										
180pF 220pF	p77																										
270pF	p77																										
330pF	p77																										
390pF 470pF	p77	p77				p77																					
560pF	p77	p77			p77	p77																					
680pF	p77	p77			p77	p77	p78		p78																		
820pF 910pF	p77	p77					p78		p78												p78	p78					
1000pF	p77	p77					p78		p78												p78	p78					
1200pF	p77	p77																									
1500pF 1800pF	p77	p77																									
2200pF	p77	p77					p78																				
2700pF		p77	p77	p77			p78	p78		p78																	
3300pF 3900pF		p77	p77	p77				p78		p78													p78	p78	p78		
4700pF		p77	p77	p77																				p78	p78		
5600pF		p77	p77	p77																							
6800pF 8200pF		p77									p78	p78 p78	p78														
10000pF											p78	p78	p78														
12000pF											p78	p78														70	n 70
15000pF 18000pF																										p78	p78 p78
22000pF																											p78 p78
27000pF																											
33000pF 39000pF																											
47000pF														p78	p78	p78	p78										
56000pF 68000pF														p78	p78	p78	p78	p70	p78	p78							
82000pF																		p78	p78 p78	p78							
0.10µF																		p78	р78	p78							
0.12µF					<u> </u>								<u> </u>			<u> </u>	1										

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series Temperature Compensating Type)

p00 ← Part Nur	nber L	ist	JIS:	СК	CJ	СН	SI		רו	EIA	A: C0	G U2	2.1														
L×W (mm)					×1.6										:	3.2×2.5								4.5× 2.0	4	.5×3.2	!
T max. (mm)					.8	_		-	26.	1.0		261		25				.5		251	2.			1.0	25.	1.5	F.C
Rated Voltage (Vdc)	10			0	2		1		2000		_	2000			_		_	_	_		630			3150			
Cap. / TC Code 0.10pF	COG	CH	COG	СН	COG	СН	COG	СН	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J
0.10pr 0.20pF																											
0.50pF																											
1.0pF																											
2.0pF																											
3.0pF																											
4.0pF																											
5.0pF																											
6.0pF																											
7.0pF																											
8.0pF																											
9.0pF 10pF																								p79			
11pF																											
12pF																								p79			
13pF																											
15pF																								p79			
16pF																											
17pF																											
18pF 19pF																								p79			
20pF																											
21pF																											
22pF																								p79			
23pF																											
24pF																											
27pF																								p79			
30pF																								-70			
33pF 36pF																								p79			
39pF																								p79			
43pF																											
47pF																								p79			
51pF																											
56pF																								p79			
62pF																											
68pF																								p79			
75pF 82pF									70															-70			
91pF									p78															p79			
100pF									p78															p79			
120pF									p78																		
150pF									p78																		
180pF												p78															
220pF												p78															
270pF																											
330pF 390pF																											
470pF																											
560pF																											
680pF																											
820pF																											
910pF																											
1000pF																											
1200pF										p78	p78		p78			270											
1500pF 1800pF										p78 p78	p78					p78				p78							
2200pF										p78	p78									p78							
2700pF																									p79		
3300pF																									p79		
3900pF																											
4700pF																											
5600pF														p78	p78												
6800pF 8200pF																	p78	p78			p78	p78					
10000pF																					p78	p78					
12000pF																					_P , 0	-p73				p79	p79
15000pF																											
18000pF																											
22000pF																											
27000pF																			p78								
33000pF																							p78				
39000pF																							p78				
47000pF 56000pF																							p78				
68000pF	p78	p78	p78	p78																							
82000pF	p78	p78	p78	p78																							
0.10µF	p78	p78	p78	p78																							
0.12µF					p78	p78	p78	p78																			
																											_

EIA: COG U2J

Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series Temperature Compensating Type)

(> GKM Sen									
p00 ← Part Nur			JIS:	СК	C1	СН		L	וו
L×W (mm)		1.5×3.2	2			5.7	×5.0		
T max. (mm)		2.0			1.5			2.0	
Rated Voltage (Vdc)	1000	630	500	1000	630	500	1000		500
Cap. / TC Code 0.10pF	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J
0.20pF									
0.50pF									
1.0pF									
2.0pF									
3.0pF									
4.0pF									
5.0pF									
6.0pF 7.0pF									
8.0pF									
9.0pF									
10pF									
11pF									
12pF									
13pF 15pF									
16pF									
17pF									
18pF									
19pF									
20pF									
21pF									
22pF									
23pF 24pF									
27pF									
30pF									
33pF									
36pF									
39pF									
43pF 47pF									
51pF									
56pF									
62pF									
68pF									
75pF									
82pF									
91pF 100pF									
120pF									
150pF									
180pF									
220pF									
270pF									
330pF 390pF									
470pF									
560pF									
680pF									
820pF									
910pF									
1000pF									
1200pF 1500pF									
1800pF									
2200pF									
2700pF									
3300pF									
3900pF	p79								
4700pF	p79								
5600pF 6800pF				p79 p79					
8200pF							p79		
10000pF							p79		
12000pF									
15000pF		p79	p79						
18000pF		p79	p79						
22000pF		p79	p79						
27000pF 33000pF					p/9	p79		p79	p79
39000pF								p79	p79 p79
47000pF								p79	p79
56000pF									
68000pF									
82000pF									
0.10µF									

0.12µF

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

GRM Series High Dielectric Constant Type

Trans. (rem) O 22 Rated Voltage (Veb.) 16	p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	5 X7	7T X	(7U	X6S	х6Т	X5I	٦											
Retrot Votage (Vide) 16	L×W (mm)			C).4×0.2	2									C).6×0.	3								1	1.0×0.5	;	
Cap/TCode X7R X7R X5R X5R X5R X5R X7R X6S X5R	T max. (mm)				0.22											0.33										0.22		
100pF peo peo peo peo peo peo peo peo peo peo	Rated Voltage (Vdc)	16	1	.0	6.3	2	1	2.5	5	0	35		25			16		1	.0		6.3		4	10	6	.3		4
150pf p80 p8	Cap. / TC Code	X7R	X7R	X5R, B	X5R, B	х6Т	X5R	Х6Т	X7R	В	X5R	X7R, R	X6S	X5R, B	X7Δ, R	X6S	X5R, B	Χ7Δ, R	X5R, B	X7R, R	X6S	X5R, B	X6S	X5R, B	X6S	X5R, B	X7T	Χ6Δ
220pF p80 p80 p80 p80 p81 p8	100pF	p80	p80	p80 p80					p81	p81		p81																
330F P80 P80 P80 P80 P80 P80 P80 P80 P80 P80	150pF	p80	p80	p80 p80					p81	p81		p81																
## 1470PF P80 P80 P80 283 28	220pF	p80	p80	p80 p80					p81	p81		p81																
Residence Resi	330pF	p80	p80	p80 p80					p81	p81		p81																
820pF p80 p80 p80 p80 p80 p80 p80 p80 p80 p81	470pF	p80	p80	p80 p80					p81	p81		p81																
1000pf ps0 ps0 ps0 ps0 ps0 ps0 ps0 ps0 ps0 ps0	680pF		p80	p80 p80					p81	p81		p81																
1500pF	820pF		p80																									
2200pF	1000pF	p80	p80	p80 p80	p80 p80				p81	p81		p81 <mark>p81</mark>		p81														
3300pF	1500pF			p80 p80	p80 p80				p81	p81		p81 <mark>p81</mark>		p81														
## A700F #60 \$80 \$80 \$80 ## ## ## ## ## ## ##	2200pF			p80 p80	p80 p80							p81		p81	p81 <mark>p81</mark>		p82											
Second S	3300pF			p80 p80	p80 p80							p81		p81	p81 <mark>p81</mark>		p82											
10000pf	4700pF			p80 p80	p80 p80							p81		p81	p81			p82 <mark>p82</mark>	p82 p82	p82 <mark>p82</mark>		p82						
15000F	6800pF			p80 p80	p80 p80							p81		p81	p81			p82 <mark>p82</mark>	p82 p82	p82 <mark>p82</mark>		p82						
22000F	10000pF			p80 p80	p80 p80							p81		p81 p81	p81		p81 p82	p82 <mark>p82</mark>		p82 <mark>p82</mark>								
33000F	15000pF				p80		p80										p81 p82		p82 p82		p82	p82						
47000F	22000pF				p80		p80										p81 p82		p82 p82		p82	p82						
Pack Pack	33000pF				p80		p81										p81 p82		p82 p82		p82	p82						
0.10µF 0.15µF 0.22µF 0.68µF 1.0µF 1.	47000pF				p80		p81										p82 p82		p82 p82		p82							
0.15µF 0.22µF 0.33µF 0.47µF 1.0µF 4.7µF 100µF 100µF	68000pF				p80		p81										p82 p82		p82 p82		p82							
0.22μF 0.33μF 0.47μF 1.0μF 1.	0.10µF				p80	p80	p81	p81			p81		p81	p81	p81	p81	p82 p82	p82	p82 p82		p82			p82 p83	p83	p83 p83	p83	p83
0.33µF 0.47µF 0.68µF 1.0µF 1.0µF 1.0µF 1.0µF 1.0µF 1.0µF 1.0µF 1.0µF 1.0µF 1.0µF	0.15µF																											
0.47μF 0.68μF 1.0μF 1.0μF 4.7μF 10μF 12μF 47μF 100μF	0.22µF																		p82		p82	p82	p82	p82 p83	p83	p83 p83	p83	p83
0.68μF	0.33µF																											
1.0μF 2.2μF 4.7μF 10μF 22μF 47μF 100μF	0.47µF																									p83 p83		p83
2.2μF 4.7μF 10μF 22μF 47μF 100μF	0.68µF																											
4.7μF 10μF 22μF 47μF 100μF	1.0µF																									p83		p83
10μF 22μF 47μF 100μF	2.2µF																											
22μF 47μF 100μF	4.7µF																											
47μF 100μF	10µF																											
100μF	22µF																											
	47µF																											
	100µF																											
150µF	150µF																											
220μF	220µF																											

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow \mathsf{GRM} \; \mathsf{Series} \; \mathsf{High} \; \mathsf{Dielectric} \; \mathsf{Constant} \; \mathsf{Type})$

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	X7	'T X	(7U	X6S	Х6Т	X5F	2											
L×W (mm)													1	L.0×0.5	5												
T max. (mm)	0.:	22				0.3					0.	33								0.!	55						
Rated Voltage (Vdc)		2.5	5	0	2	5	1	6	10	10	6	.3	4	100		50		3	5		25			16		1	0
Cap. / TC Code	X5R	X7T	X7R, R	В	X7R	В	X7R	В	X5R	X5R, B	Х6Т	X5R, B	X6T	X7R	X7R, R	X6S	X5R, B	X6S	X5R	X7R, R	X6S	X5R, B	X7R, R	X6S	X5R, B	X7R	X6S
100pF																											
150pF																											
220pF			p83 <mark>p83</mark>											p83	p83 <mark>p84</mark>		p84										
330pF			p83 <mark>p83</mark>											p83	p83 <mark>p84</mark>		p84										
470pF			p83 <mark>p83</mark>	-										p83	p83 <mark>p84</mark>		p84										
680pF			p83 <mark>p83</mark>	p83										p83	p83 <mark>p84</mark>		p84										
820pF																											
1000pF			p83 <mark>p83</mark>	-										p83	p83 <mark>p84</mark>		p84										
1500pF			p83 <mark>p83</mark>	p83										p83	p83 <mark>p84</mark>		p84										
2200pF					p83	p83								p83	p83 <mark>p84</mark>		p84			p84		p84					
3300pF							p83	p83						p83	p83 <mark>p84</mark>		p84										
4700pF							p83	p83						p83	p84 <mark>p84</mark>		p84						p85				
6800pF							p83	p83							p84 <mark>p84</mark>		p84			p84							
10000pF							p83	p83							p84 <mark>p84</mark>		p84			p84 <mark>p84</mark>		p84	p85		p85		
15000pF									p83						p84		p84			p84 <mark>p84</mark>		p84					
22000pF									p83						p84		p84			p84 <mark>p84</mark>		p84					
33000pF									p83						p84	p84	p84			p84 <mark>p84</mark>		p84					
47000pF															p84	p84	p84			p84 <mark>p84</mark>		p85					
68000pF															p84	p84	p84			p84			p85 <mark>p85</mark>				
0.10μF		p83													p84		p84 p84			p84		p84 p85					
0.15µF																							p85				
0.22µF		p83																p84	p84		p84	p84	p85		p85	p85	
0.33µF																											
0.47µF																			p84			p84		p85	p85	p85	
0.68µF																											
1.0µF	p83									p83 p83	p83	p83 <mark>p83</mark>	p83									p84 p85			p85 p85		p85
2.2µF																											
4.7µF																											
10μF																											
22µF																											
47μF																											
100µF																											
150µF																											
220µF																											

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$(\rightarrow \mathsf{GRM} \; \mathsf{Series} \; \mathsf{High} \; \mathsf{Dielectric} \; \mathsf{Constant} \; \mathsf{Type})$

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	X7	7T X	(7U	X6S	х6Т	X5F	₹											
L×W (mm)											:	1.0×0.	5												1.6×	0.8	
T max. (mm)				0.55						0	.6			0.0	65				0	.7					0.	5	
Rated Voltage (Vdc)	10		6.3			4		35	25	16	6.3	4	2.5	10	6.3	25	1	.6	1	.0	6.3	4	2.5	25	16	6.3	4
Cap. / TC Code	X5R, B	X7R	X6S	X5R, B	X7R	X6S	X5R	X5R	X6S	X6S	X5R, B	X5R, B	х6Т	X5R	X6S	X5R	X6S	X5R	X7S	X6S	X7S	X5R	X5R	X5R, B	X5R, B	X5R	X5R
100pF																											
150pF																											
220pF																											
330pF																											
470pF																											
680pF																											
820pF																											
1000pF																											
1500pF																											
2200pF																											
3300pF																											
4700pF																											
6800pF																											
10000pF																											
15000pF																											
22000pF																											
33000pF	p85																										
47000pF																											
68000pF		i																		1							
0.10µF	p85			p85																							
0.15µF	p85 p85	1	0.5	p85 p85		0.5	i													1							
0.22µF	p85 p85	1	p85	p85 p85		p85																					
0.33µF	p85 p85	1		p85 p85 p85 p85																							
0.47μF 0.68μF	p85 p85			p85 p85 p85 p85																1							
1.0µF	p85 p85			p85 p85 p85 p85	p85		-05	p85	p85	p85														-06-06	p86 p86		
2.2µF	p85	pos	p85	p85	роз		pos	pos	pos	pos						p86	p86	p86	p86	p86	p86	i		poo poo	рвороо		
4.7µF	pos		pos	pos							085 085	p85 p85	206	p86	p86	poo	pao	poo	роо	pao	poo						
4.7μΓ 10μF											p03 p03	pos pos	poo	роо	роо							p86	p86			p86	p86
22µF																						роо	роо			роо	роо
47µF																											
100µF																											
150µF																											
220µF																											
22001																:	1			1	1						

Continued on the following page. \nearrow

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series High Dielectric Constant Type)

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	X7	'T X	.7U	X6S	х6Т	X5F	2											
L×W (mm)													1	1.6×0.8	3												
T max. (mm)			0.55									0.	.9									0.95				1.0	
Rated Voltage (Vdc)	16	10	0	6	.3	250	200	50	35	2	5		16		1	0	6	.3	4	25	1	16	1	0	50	3	5
Cap. / TC Code	X5R	X6S	X5R	X7T	X6S	X7R	X7R	X5R, B	X7R	X7R	X5R, B	X7R	X6S	X5R, B	X7R	X5R	X6S	X5R, B	X5R	X5R	X6S	X5R, B	X7S	X5R, B	X5R	X6S	X5R
100pF																											
150pF																											
220pF						p86	p86																				
330pF						p86	p86																				
470pF						p86	p86																				
680pF						p86	p86																				
820pF																											
1000pF						p86	p86																				
1500pF						p86	p86																				
2200pF						p86	p86																				
3300pF																											
4700pF																											
6800pF																											
10000pF																											
15000pF																											
22000pF																											
33000pF																											
47000pF																											
68000pF																											
0.10μF																											
0.15µF																											
0.22µF																											
0.33µF																											
0.47µF									p86																		
0.68µF																											
1.0µF								p86 <mark>p86</mark>			p86 p86			p86 p86													
2.2µF											p86 p86		p86	p86 p86	p86										p86	p86	
4.7µF	p86	p86	p86	p86	p86											p86	p86			p86	p86	p86 p86					p86
10μF																		p86 p86	p86			p86		p86 p86			
22µF																											
47µF																											
100µF																											
150µF																											
220µF																											

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow \mathsf{GRM} \; \mathsf{Series} \; \mathsf{High} \; \mathsf{Dielectric} \; \mathsf{Constant} \; \mathsf{Type})$

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	5 X7	'T X	(7U	X6S	X6T	X5F	₹											
L×W (mm)					1.6:	۰0.8												2	.0×1.2	5							
T max. (mm)					1	.0					0.7								0.95								1.0
Rated Voltage (Vdc)		25		1	6	10	6	.3	4	4	16	50	3	5		25		1	6	1	.0	6	.3	,	4	2.5	500
Cap. / TC Code	X7S	X6S	X5R	X7S	X6S	X7T	X7T	X5R, B	X6S	X5R, B	X6S	X5R, B	X6S	X5R	X7R	X6S	X5R, B	X7R	X5R, B	Χ7Δ	X5R, B	X6S	X5R, B	X6S	X5R	X6T	X7R
100pF																											
150pF																											
220pF																											
330pF																											
470pF																											
680pF																											
820pF																											
1000pF																											p87
1500pF																											p87
2200pF																											p87
3300pF																											p87
4700pF																											p87
6800pF																											p87
10000pF																											
15000pF																											
22000pF																											
33000pF																											
47000pF																											
68000pF																											
0.10µF																											
0.15µF																											
0.22µF																											
0.33µF																											
0.47µF																											
0.68µF																											
1.0µF												p87 p87			p87												
2.2µF	p87	p87		p87								p87 p87	p87			p87	p87 p87	p87		p87							
4.7µF		p87												p87			p87		p87p87	p87							
10µF			p87		p87	p87	p87										p87 p87		p87p87			p87		p87			
22µF								p87 p87	p87	p87 p87											p87 p87		p87 <mark>p87</mark>				
47µF																									p87	p87	
100µF																											
150µF																											
220µF																											

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series High Dielectric Constant Type)

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X75	X7	T	(7U	X6S	х6Т	X5F	₹											
L×W (mm)													2.	.0×1.2	:5												
T max. (mm)				1.0						1.35								1.4							1.4	15	
Rated Voltage (Vdc)	250	200	35	2	5	1	.6	50	2	5	1	6	50	2	5	1	.6	1	0	6	.3		4	500	250	200	50
Cap. / TC Code	X7R	X7R	X6S	X7S	X6S	X7S	X5R	X5R, B	X6S	X5R, B	X7R	X5R, B	X5R, B	X7R, R	X5R, B	X7R	X6S	X7R	В	X7R	X6S	X7U	X6S	X7R	X7R	X7R	X7S
100pF																											
150pF																											
220pF																											
330pF																											
470pF																											
680pF																											
820pF																											
1000pF	p87	p87																									
1500pF	p87	p87																									
2200pF	p87	p87																									
3300pF	p87	p87																									
4700pF	p87	p87																									
6800pF	p87	p87																									
10000pF																								p88	p88	p88	
15000pF																									p88	p88	
22000pF																									p88	p88	
33000pF																											
47000pF																											
68000pF					:																						
0.10µF																											
0.15µF																											
0.22µF																											
0.33µF																											
0.47μF																											
0.68μF 1.0μF								p87 <mark>p87</mark>						p88 <mark>p88</mark>													
2.2µF								p67 p67		p87	p88		p88 <mark>p88</mark>														
4.7μF			p87	p87	p87	p87			p87	p87 p87	poo		p88 p88			p88		p88									p88
10μF			po /	po /	po /	р67			ρο /	po / po /		p88 p88	heelhee		p88 p88		p88	p88		p88	i						poo
22μF							p87					роброб			роброб		роо	- boo	p88	poo	p88	p88	p88				
							рот												hoo		poo	poo	hoo				
47μF 100μF																											
150μF																											
220µF																											
220µ1																	1				1		1				

Continued on the following page. ${\cal J}$

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series High Dielectric Constant Type)

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	X7	Т	(7U	X6S	X6T	X5F	₹											
L×W (mm)									2.0×	1.25												;	3.2×1.6	5			
T max. (mm)									1.	45											0.95			1.0		1.25	
Rated Voltage (Vdc)	50		35			25			16			10		6	.3	4	4	2.5	35	16	10	6	.3	630	1000	630	500
Cap. / TC Code	X6S	X7S	X6S	X5R	X7S	X6S	X5R	X7S	X6S	X5R	X7T	X6S	X5R	X7T	X5R, B	X6S	X5R, B	X6S	X5R	X5R, B	X5R, B	X6S	X5R, B	X7R	X7R	X7R	X7R
100pF																											
150pF																											
220pF																											
330pF																											
470pF																									p88		
680pF																									p88		
820pF																											
1000pF																								p88	p88		
1500pF																								p88	p89		
2200pF																								p88	p89		
3300pF																								p88	p89		
4700pF																								p88	p89		
6800pF																								p88		p89	
10000pF																								p88			
15000pF																											p89
22000pF																											p89
33000pF																											
47000pF																											
68000pF																											
0.10μF																											
0.15µF																											
0.22μF																											
0.33µF																											
0.47µF																											
0.68µF																											
1.0µF																											
2.2µF																											
4.7μF	p88	p88			p88																i						
10μF			p88	p88	p88	p88		p88																			
22µF							p88		p88	p88	p88	p88	p88	p88						p88 <mark>p88</mark>	p88 p88	p88	p88 <mark>p88</mark>				
47µF													p88				p88 <mark>p88</mark>										
100µF															p88	p88		p88									
150µF																											
220µF																											

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

$(\rightarrow$ GRM Series High Dielectric Constant Type)

p00 ← Part Nur	nber L	ist	JIS:	R	В		EIA:	X7R	X79	X7	'T X	(7U	X6S	х6Т	X5F	2											
L×W (mm)													3	3.2×1.6	5												
T max. (mm)			1.25												1	.8										1.	.9
Rated Voltage (Vdc)	250	200		0	25	1000	630	500	250	200	100		0	2			16			.0		6.3			4	100	25
Cap. / TC Code	X7R	X7R	X7R	В	X5R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X5R, B	X7R	X5R, B	X7R	X6S	X5R, B	X7R	X5R, B	Χ7Δ	X6S	X5R, B	X7U	X6S	X7R	X6S
100pF																											
150pF																											
220pF																											
330pF																											
470pF																											
680pF																											
820pF																											
1000pF																											
1500pF																											
2200pF																											
3300pF																											
4700pF																											
6800pF						p89																					
10000pF						p89																					
15000pF	p89	p89					p89																				
22000pF	p89	p89					p89	- 00		- 00																	
33000pF								p89	p89	p89																	
47000pF 68000pF	p89	00						p89	p89	p89																	
0.10μF	рвэ	p89							p89	p89																	
0.10μF 0.15μF									рвэ	рвэ																	
0.13μF 0.22μF																											
0.22μF 0.33μF																											
0.47μF																											
0.47μ1 0.68μF																	1										
1.0µF			p89	p89							p89	i															
2.2µF			роз	pos							роз	p89	p89													p89	
4.7µF												p89	p89	p89		p89	i									роз	
10µF					p89							роз	p89 p89		p89	роз											
22µF					703								P33		p89 p89		p89	p89p89	p89	İ	p89						p89
47μF															pos		pos	pos	P.0.5	p89 p 89		p89	p89 p89	p89	p89		pos
100µF																					,			,			
150µF																											
220µF																											
												:										1				- :	