

# MURATA 0402 X5R MLCC Chip Multilayer Ceramic Capacitors

<b>Manufacturer</b>	MURATA	<b>TC Code</b>	X5R
<b>Mounting Type</b>	Surface Mount	<b>Tolerance</b>	±5%, ±10%, ±20%
<b>Series</b>	GMD GRJ GRM GRT	<b>Operating Temperature Range</b>	-55°C ~ 85°C
<b>SIZE</b>	0201(0603Metri)	<b>Rated Voltage</b>	4V, 6.3V, 10V, 16V, 25V, 35V
<b>Capacitance</b>	100pF, 150pF, 220pF, 330pF, 470pF, 680pF, 1000pF, 1200pF, 1500pF, 1800pF, 2200pF, 2700pF, 3300pF, 3900pF, 4700pF, 5600pF, 6800pF, 8200pF, 10000pF 0.012μF to 4.7μF		
<b>Packaging</b>	Cut Tape (CT) Tape & Reel (TR)	<b>RoHS Status</b>	ROHS3 Compliant

Products Packaging:



**MLCC ALL series**

Type		Dimensions (mm)			
British expression	Metric expression	L	W	T	WB
0201	0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.10
0402	1005	1.00±0.05	0.50±0.05	0.50±0.05	0.25±0.10
0603	1608	1.60±0.10	0.80±0.10	0.80±0.10	0.30±0.10
0805	2012	2.00±0.20	1.25±0.20	≤0.55 0.80±0.20 1.00±0.20 1.25±0.20	0.50±0.20
1206	3216	3.20±0.30	1.60±0.30	0.80±0.20 1.00±0.20 1.25±0.20 1.60±0.30	0.60±0.30
1210	3225	3.20±0.30	2.50±0.30	≤2.80	0.60±0.30
1808	4520	4.50±0.40	2.00±0.20	≤2.20	0.60±0.30
1812	4532	4.50±0.40	3.20±0.30	≤3.50	0.60±0.30
2220	4750	5.70±0.40	5.00±0.40	≤3.50	0.60±0.30
2225	5763	5.70±0.50	6.30±0.50	≤6.20	0.60±0.30
3012	7632	7.60±0.50	3.20±0.30	≤8.10	0.60±0.30
3035	7690	7.60±0.50	9.00±0.50	≤8.10	0.60±0.30

Dielectric Code	CG	CH	HG	LG	PH	RH	SH	TH	UJ	SL	X	B	BS	DS	E	F
Dielectric	CO G	CO H	HG	LG	PH	RH	SH	TH	UJ	SL	X5 R	X7 R	X7 S	X6 S	Z5 U	Y5 V

Code	B	C	D	F	G	J	K	M	S	Z
Tolerance	± 0.10pF	± 0.25pF	± 0.5pF	± 1.0%	± 2.0%	± 5.0%	± 10%	± 20%	+50% -20%	+80% -20%



● Part Numbering

Chip Multilayer Ceramic Capacitors for General



(Part Number)

GR	M	18	8	B1	1H	102	K	A01	D
1	2	3	4	5	6	7	8	9	10

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
	3	Safety Standard Certified 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 Capacitors for General Purpose
	D	Wire Bonding/AuSn Soldering Mount Chip Multilayer Ceramic Capacitors for General Purpose
GQ	M	High Q and High Power Chip Multilayer Ceramic Capacitors for General Purpose
GR	3	High Effective Capacitance & High Ripple Current Chip Multilayer Ceramic Capacitors for General Purpose
	4	Chip Multilayer Ceramic Capacitors for Information Devices only
	J	Soft Termination Chip Multilayer Ceramic Capacitors for General Purpose
	M	Chip Multilayer Ceramic Capacitors for General Purpose
KR	3	High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose
	M	Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose
LL	A	8 Terminals Low ESL Chip Multilayer Ceramic Capacitors for General Purpose
	L	LW Reversed Low ESL Chip Multilayer Ceramic Capacitors for General Purpose
	M	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

3 Chip Dimensions (LxW)

Code	Dimensions (LxW)	EIA
01	0.25x0.125mm	008004
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

(Part Number)

GR	M	18	8	B1	1H	102	K	AO1	D
1	2	3	4	5	6	7	8	9	10

Continued from the preceding page. ↘

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
A	1.0mm
B	1.25mm
C	1.6mm
D	2.0mm
E	2.5mm
M	1.15mm
Q	1.5mm
X	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
R	3.6mm
Q	3.7mm
T	4.8mm
V	6.2mm
W	6.4mm

⑤ Temperature Characteristics

Temperature Characteristic Codes		Temperature Characteristics				Operating Temperature Range	Capacitance Change Each Temperature (%)					
Code	Public STD Code	Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	-55°C		*4		-10°C			
					Max.		Min.	Max.	Min.	Max.	Min.	
1X	SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	-55 to 125°C	-	-	-	-	-	-
2C	CH	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	CK	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	C0G	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	-	-	-	-	-	-
B3	B	JIS	20°C	-25 to 85°C	±10%	-25 to 85°C	-	-	-	-	-	-
C7	X75	EIA	25°C	-55 to 125°C	±22%	-55 to 125°C	-	-	-	-	-	-
C8	X65	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	X6T	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	-	-	-	-	-	-

\*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)

**⑥ Rated Voltage**

Code	Rated Voltage
OE	DC2.5V
OG	DC4V
OJ	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	DC1kV
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

**⑦ 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
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	±0.05pF

**⑨ Individual Specification Code (Except LLR)**

Expressed by three figures.

**⑩ ESR (LLR Only)**

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

**⑪ Packaging**

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

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

### 3 Terminal Low ESL Multilayer Ceramic Capacitors

WEB 

(Part Number)

NF	M	3D	CC	102	R	1H	3	L
1	2	3	4	5	6	7	8	9

1 Product ID 2 Series

Product ID	Series
NFM	3 Terminals Low ESL Chip Multilayer Ceramic Capacitors

3 Dimensions (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	Features	
CC	For General	For Signal Lines
PC		For Large Current
PS		High Insertion Loss Type for Large Current
KC		For Very Large Current

5 Capacitance

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.

6 Characteristics

Code	Capacitance Temperature Characteristics
B	±10%, ±12.5%, +10/-13%
C	±22%
D	+22/-33%
R	±15%, +15/-18%

7 Rated Voltage

Code	Rated Voltage
OE	2.5V
OG	4V
OJ	6.3V
1A	10V
1C	16V
1E	25V
1H	50V
2A	100V

8 Electrode

Code	Electrode
3	Sn Plating

9 Packaging

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

### Part Number (0402 X5R MLCC)

Part Number	Capacitance	Tolerance	Voltage
GRM155R61A104KA01J	0.1µF	±10%	10V
GRM155R61C104KA88D	0.1µF	±10%	16V
GRM155R61A104KA01D	0.1µF	±10%	10V
GRM155R61C103KA01D	10000pF	±10%	16V
GRM155R62A104KE14D	0.1µF	±10%	100V
GRM155R61E102KA01D	1000pF	±10%	25V
GRM155R60J103KA01D	10000pF	±10%	6.3V
GRM155R61H102KA01D	1000pF	±10%	50V
GRM155R61H222KA01D	2200pF	±10%	50V
GRM155R60J102KA01D	1000pF	±10%	6.3V
GRM155R61A102KA01D	1000pF	±10%	10V
GRM155R61C102KA01D	1000pF	±10%	16V
GRM155R60J104KA01D	0.1µF	±10%	6.3V

GRM155R61E104MA87D	0. 1 $\mu$ F	$\pm$ 20%	25V
GRM155R61C223KA01D	0. 022 $\mu$ F	$\pm$ 10%	16V
GRM155R61A223KA01D	0. 022 $\mu$ F	$\pm$ 10%	10V
GRM155R61E104KA87D	0. 1 $\mu$ F	$\pm$ 10%	25V
GRM155R61A473KA01D	0. 047 $\mu$ F	$\pm$ 10%	10V
GRM155R60J473KA01D	0. 047 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61A333KA01D	0. 033 $\mu$ F	$\pm$ 10%	10V
GRM155R61C333KA01D	0. 033 $\mu$ F	$\pm$ 10%	16V
GRM155R61A224KE19J	0. 22 $\mu$ F	$\pm$ 10%	10V
GRM155R61C473KA01D	0. 047 $\mu$ F	$\pm$ 10%	16V
GRM155R60J474KE19D	0. 47 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61A224KE19D	0. 22 $\mu$ F	$\pm$ 10%	10V
GRM155R61E224KE01D	0. 22 $\mu$ F	$\pm$ 10%	25V
GRM155R6YA224KE01D	0. 22 $\mu$ F	$\pm$ 10%	35V
GRM155R61A273KA01D	0. 027 $\mu$ F	$\pm$ 10%	10V
GRM155R61H104KE19D	0. 1 $\mu$ F	$\pm$ 10%	50V
GRM155R61A393KA01D	0. 039 $\mu$ F	$\pm$ 10%	10V
GRM155R61E105KA12D	1 $\mu$ F	$\pm$ 10%	25V
GRT155R61E224KE01D	0. 22 $\mu$ F	$\pm$ 10%	25V
GRM155R61A225KE95D	2. 2 $\mu$ F	$\pm$ 10%	10V
GRM155R61A474KE15J	0. 47 $\mu$ F	$\pm$ 10%	10V
GRM155R60J224KE01D	0. 22 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R60J225KE95D	2. 2 $\mu$ F	$\pm$ 10%	6. 3V
GRT155R61C105KE01D	1 $\mu$ F	$\pm$ 10%	16V
GRT155R61C105ME01D	1 $\mu$ F	$\pm$ 20%	16V
GRM155R61A474KE15D	0. 47 $\mu$ F	$\pm$ 10%	10V
GRM155R60J475ME47D	4. 7 $\mu$ F	$\pm$ 20%	6. 3V
GRM155R60J475ME87D	4. 7 $\mu$ F	$\pm$ 20%	6. 3V
GRM155R60G475ME87D	4. 7 $\mu$ F	$\pm$ 20%	4V
GRM153R60J105ME15D	1 $\mu$ F	$\pm$ 20%	6. 3V
GRM155R61A124KE19D	0. 12 $\mu$ F	$\pm$ 10%	10V
GRM155R60J124KE01D	0. 12 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61A154KE19D	0. 15 $\mu$ F	$\pm$ 10%	10V
GRM155R60J154KE01D	0. 15 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61A184KE19D	0. 18 $\mu$ F	$\pm$ 10%	10V
GRM152R60J104KE19D	0. 1 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61A334KE15D	0. 33 $\mu$ F	$\pm$ 10%	10V
GRM155R60J334KE01D	0. 33 $\mu$ F	$\pm$ 10%	6. 3V
GRM153R60G105ME95D	1 $\mu$ F	$\pm$ 20%	4V
GRT155R60J225KE01D	2. 2 $\mu$ F	$\pm$ 10%	6. 3V
GRM153R60J225ME95D	2. 2 $\mu$ F	$\pm$ 20%	6. 3V

GRT155R61E105KE01D	1 $\mu$ F	$\pm 10\%$	25V
GRT155R61E105ME01D	1 $\mu$ F	$\pm 20\%$	25V
GRM153R61A105ME95D	1 $\mu$ F	$\pm 20\%$	10V
GRM155R61A274KE15D	0.27 $\mu$ F	$\pm 10\%$	10V
GRM155R60J274KE01D	0.27 $\mu$ F	$\pm 10\%$	6.3V
GRM155R60J106ME15D	10 $\mu$ F	$\pm 20\%$	6.3V
GRM155R61C474KE01D	0.47 $\mu$ F	$\pm 10\%$	16V
GRM155R61E474KE01D	0.47 $\mu$ F	$\pm 10\%$	25V
GRM155R61A684KE15D	0.68 $\mu$ F	$\pm 10\%$	10V
GRM155R61A824KE15D	0.82 $\mu$ F	$\pm 10\%$	10V
GRM155R60J684KE19D	0.68 $\mu$ F	$\pm 10\%$	6.3V
GRM153R60J105ME95D	1 $\mu$ F	$\pm 20\%$	6.3V
GRM155R60J394KE19D	0.39 $\mu$ F	$\pm 10\%$	6.3V
GRM155R60G106ME44D	10 $\mu$ F	$\pm 20\%$	4V
GRM155R6YA474KE01D	0.47 $\mu$ F	$\pm 10\%$	35V
GRJ155R60J106ME11D	10 $\mu$ F	$\pm 20\%$	6.3V
GRM155R60E106ME16D	10 $\mu$ F	$\pm 20\%$	2.5V
GRM152R61A224KE19D	0.22 $\mu$ F	$\pm 10\%$	10V
GRM155R61A564KE15D	0.56 $\mu$ F	$\pm 10\%$	10V
GRM155R61A475MEAAD	4.7 $\mu$ F	$\pm 20\%$	10V
GRT155R60J475ME13D	4.7 $\mu$ F	$\pm 20\%$	6.3V
GRT155R61C474ME01D	0.47 $\mu$ F	$\pm 20\%$	16V
GRM153R60J475ME15D	4.7 $\mu$ F	$\pm 20\%$	6.3V
GRM155R60J225ME15D	2.2 $\mu$ F	$\pm 20\%$	6.3V
GRM155R60G225ME15D	2.2 $\mu$ F	$\pm 20\%$	4V
GRM155R61C225KE11D	2.2 $\mu$ F	$\pm 10\%$	16V
GRM152R60J105ME15D	1 $\mu$ F	$\pm 20\%$	6.3V
GRM155R6YA105KE11D	1 $\mu$ F	$\pm 10\%$	35V
GRM155R6YA105ME11D	1 $\mu$ F	$\pm 20\%$	35V
GRT155R61C225KE13D	2.2 $\mu$ F	$\pm 10\%$	16V
GRM155R60J156ME05D	15 $\mu$ F	$\pm 20\%$	6.3V
GRT155R61E225KE13D	2.2 $\mu$ F	$\pm 10\%$	25V
GRT155R61E225ME13D	2.2 $\mu$ F	$\pm 20\%$	25V
ZRB15XR60J106ME12D	10 $\mu$ F	$\pm 20\%$	6.3V
ZRB157R61E225KE11D	2.2 $\mu$ F	$\pm 10\%$	25V
ZRB15XR61A475ME01D	4.7 $\mu$ F	$\pm 20\%$	10V
GRT155R61E474KE01D	0.47 $\mu$ F	$\pm 10\%$	25V
GRT155R61C474KE01D	0.47 $\mu$ F	$\pm 10\%$	16V
GRM155R60J106ME47D	10 $\mu$ F	$\pm 20\%$	6.3V
GRM155R61C104KA88J	0.1 $\mu$ F	$\pm 10\%$	16V
GRM155R61A683KA01D	0.068 $\mu$ F	$\pm 10\%$	10V



GRM155R61A823KA01D	0.082μF	±10%	10V
GRM155R61A563KA01D	0.056μF	±10%	10V
GRM155R61A472KA01D	4700pF	±10%	10V
GRT155R61E224ME01D	0.22μF	±20%	25V
GRM155R61A103KA01D	10000pF	±10%	10V
GRM155R61C683KA88D	0.068μF	±10%	16V
GRM155R61C224KA12D	0.22μF	±10%	16V
GRM155R61E105MA12D	1μF	±20%	25V
GRM155R60J224KE01J	0.22μF	±10%	6.3V
GRM155R61H473KE19D	0.047μF	±10%	50V
GRM155R60J475ME87J	4.7μF	±20%	6.3V
GRM155R60G475ME47D	4.7μF	±20%	4V
GRM155R61A154KE19J	0.15μF	±10%	10V
GRM152R61A104KE19D	0.1μF	±10%	10V
GRM155R61A394KE15D	0.39μF	±10%	10V
GRM153R60G475ME15D	4.7μF	±20%	4V
GRM155R60G225ME15J	2.2μF	±20%	4V
GRM155R60G106ME15D	10μF	±20%	4V
GRM155R61C225KE11J	2.2μF	±10%	16V
GRT155R61C224ME01D	0.22μF	±20%	16V
ZRB157R61A225KE11D	2.2μF	±10%	10V
ZRB157R61C225KE11D	2.2μF	±10%	16V
ZRB15XR60J475ME01D	4.7μF	±20%	6.3V
GRT155R61C225ME13D	2.2μF	±20%	16V
GRT155R6YA474KE01D	0.47μF	±10%	35V
GRT155R6YA474ME01D	0.47μF	±20%	35V
GRT155R6YA224ME01D	0.22μF	±20%	35V
GRM155R61C222KA01D	2200pF	±10%	16V
GRT155R6YA224KE01D	0.22μF	±10%	35V
GRM155R62A104ME14D	0.1μF	±20%	100V
GRM153R60G105ME19D	1μF	±20%	4V
GRM155R61A225ME95D	2.2μF	±20%	10V
GRT155R61E474ME01D	0.47μF	±20%	25V
GRM155R61C225ME44D	2.2μF	±20%	16V
GRM155R61E225ME11D	2.2μF	±20%	25V
GRM155R60J106ME05D	10μF	±20%	6.3V
GRM155R61H104KE14J	0.1μF	±10%	50V
GRM155R61H472KA01D	4700pF	±10%	50V
GRM155R61H104ME14D	0.1μF	±20%	50V
GRM155R61H104KE14D	0.1μF	±10%	50V
GRM155R61H104JE14D	0.1μF	±5%	50V

GRM155R60J474KE19J	0.47µF	±10%	6.3V
GRM155R61C105MA12D	1µF	±20%	16V
GRM155R60J225ME95D	2.2µF	±20%	6.3V
GRT155R61C224KE01D	0.22µF	±10%	16V
GRM155R60J334KE01J	0.33µF	±10%	6.3V
GRT155R61A225KE01D	2.2µF	±10%	10V
GRT155R61A225ME01D	2.2µF	±20%	10V
GRM152R61A104ME19D	0.1µF	±20%	10V
GRM155R61H474KE11D	0.47µF	±10%	50V
GRT155R60G475ME13D	4.7µF	±20%	4V
GRM152R60J474ME15D	0.47µF	±20%	6.3V
GRM155R61C225KE44D	2.2µF	±10%	16V
GRM155R61E225ME15D	2.2µF	±20%	25V
GRM155R61E225KE11D	2.2µF	±10%	25V
GRM155R6YA225ME11D	2.2µF	±20%	35V
GRT155R60J225ME01D	2.2µF	±20%	6.3V
GRM155R6YA225KE11D	2.2µF	±10%	35V
GRM155R60G106ME47D	10µF	±20%	4V
GRM155R62A104KE14J	0.1µF	±10%	100V
GRM155R61E105KA12J	1µF	±10%	25V
GRM155R61H105ME05D	1µF	±20%	50V
GRM155R61H105KE05D	1µF	±10%	50V
GRM155R60J475ME47J	4.7µF	±20%	6.3V
GRM155R61A106ME11D	10µF	±20%	10V
GRM155R60G475ME47J	4.7µF	±20%	4V
GRM153R61A105ME95J	1µF	±20%	10V
GRM155R61H474ME11J	0.47µF	±20%	50V
GRM155R61C225ME15D	2.2µF	±20%	16V
GRM155R61H474ME11D	0.47µF	±20%	50V
GRM155R61A475MEAAJ	4.7µF	±20%	10V
GRM155R61E225KE11J	2.2µF	±10%	25V
GRM155R61E225ME11J	2.2µF	±20%	25V
GRM155R6YA105KE11J	1µF	±10%	35V
GRM155R61E105KE11D	1µF	±10%	25V
GRM155R61C225ME11D	2.2µF	±20%	16V
GRM152R60G105ME15D	1µF	±20%	4V
ZRB15XR61A106ME01D	10µF	±20%	10V
GMD155R60J105KE11D	1µF	±10%	6.3V
GRM155R60J105KE19D	1µF	±10%	6.3V
GRM155R60J105ME19D	1µF	±20%	6.3V
GRM155R61A105KE15D	1µF	±10%	10V

GRM155R61A105ME15D	1 $\mu$ F	$\pm$ 20%	10V
GRM155R60J105KE19J	1 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R60J472KA01D	4700pF	$\pm$ 10%	6. 3V
GRM155R61A105KE15J	1 $\mu$ F	$\pm$ 10%	10V
GRM155R61A222KA01D	2200pF	$\pm$ 10%	10V
GRM155R61E222KA01D	2200pF	$\pm$ 10%	25V
GRM152R61A224ME19D	0. 22 $\mu$ F	$\pm$ 20%	10V
GRM155R61C105KE01D	1 $\mu$ F	$\pm$ 10%	16V
GRM155R61C105ME01D	1 $\mu$ F	$\pm$ 20%	16V
GRM155R6YA224ME01D	0. 22 $\mu$ F	$\pm$ 20%	35V
GRM155R6YA474ME01D	0. 47 $\mu$ F	$\pm$ 20%	35V
GRM155R61C105KA12D	1 $\mu$ F	$\pm$ 10%	16V
GRM155R60J222KA01D	2200pF	$\pm$ 10%	6. 3V
GRM155R60J223KA01D	0. 022 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61C273KA01D	0. 027 $\mu$ F	$\pm$ 10%	16V
GRM155R61C563KA88D	0. 056 $\mu$ F	$\pm$ 10%	16V
GRM155R61C472KA01D	4700pF	$\pm$ 10%	16V
GRM155R61A105KE01D	1 $\mu$ F	$\pm$ 10%	10V
GRM155R61A105ME01D	1 $\mu$ F	$\pm$ 20%	10V
ZRB15XR61A475KE01D	4. 7 $\mu$ F	$\pm$ 10%	10V
GRM155R61E472KA01D	4700pF	$\pm$ 10%	25V
GRM155R60J106ME44D	10 $\mu$ F	$\pm$ 20%	6. 3V
GRM155R60J224ME01D	0. 22 $\mu$ F	$\pm$ 20%	6. 3V
GRM155R61A474ME15D	0. 47 $\mu$ F	$\pm$ 20%	10V
GRM155R61C105KA12J	1 $\mu$ F	$\pm$ 10%	16V
GRM155R60J184KE01D	0. 18 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61H473KE14D	0. 047 $\mu$ F	$\pm$ 10%	50V
GRM155R61H333KE14D	0. 033 $\mu$ F	$\pm$ 10%	50V
GRM155R60J824KE19D	0. 82 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61E104KA87J	0. 1 $\mu$ F	$\pm$ 10%	25V
GRM155R61C474ME01D	0. 47 $\mu$ F	$\pm$ 20%	16V
GRM155R61E103KA01D	10000pF	$\pm$ 10%	25V
GRM155R61E683KA87D	0. 068 $\mu$ F	$\pm$ 10%	25V
GRM155R60J105ME19J	1 $\mu$ F	$\pm$ 20%	6. 3V
GRM155R60J563KA01D	0. 056 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R60J564KE19D	0. 56 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R60J683KA01D	0. 068 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R60J823KA01D	0. 082 $\mu$ F	$\pm$ 10%	6. 3V
GRM155R61C393KA01D	0. 039 $\mu$ F	$\pm$ 10%	16V
GRM155R61C823KA88D	0. 082 $\mu$ F	$\pm$ 10%	16V
GRM155R60J684KE19J	0. 68 $\mu$ F	$\pm$ 10%	6. 3V

GRM155R61A334KE15J	0.33μF	±10%	10V
GRM155R61A684KE15J	0.68μF	±10%	10V
GRM152R60J104ME19D	0.1μF	±20%	6.3V
GRM152R60J224KE19D	0.22μF	±10%	6.3V
GRM152R60J224ME19D	0.22μF	±20%	6.3V
GRM155R60G106ME44J	10μF	±20%	4V
GRM155R60J154ME01D	0.15μF	±20%	6.3V
GRM155R60J154ME01J	0.15μF	±20%	6.3V
GRM155R60J224ME01J	0.22μF	±20%	6.3V
GRM155R60J334ME01D	0.33μF	±20%	6.3V
GRM155R60J334ME01J	0.33μF	±20%	6.3V
GRM155R60J474ME19D	0.47μF	±20%	6.3V
GRM155R60J474ME19J	0.47μF	±20%	6.3V
GRM155R60J684ME19D	0.68μF	±20%	6.3V
GRM155R60J684ME19J	0.68μF	±20%	6.3V
GRM155R61A105KE01J	1μF	±10%	10V
GRM155R61A154ME19D	0.15μF	±20%	10V
GRM155R61A154ME19J	0.15μF	±20%	10V
GRM155R61A224ME19D	0.22μF	±20%	10V
GRM155R61A224ME19J	0.22μF	±20%	10V
GRM155R61A334ME15D	0.33μF	±20%	10V
GRM155R61A334ME15J	0.33μF	±20%	10V
GRM155R61A474ME15J	0.47μF	±20%	10V
GRM155R61A684ME15D	0.68μF	±20%	10V
GRM155R61A684ME15J	0.68μF	±20%	10V
GRM155R61C224MA12D	0.22μF	±20%	16V
GRM155R61E474KA12D	0.47μF	±10%	25V
GRM155R61E474KA12J	0.47μF	±10%	25V
GRM155R61E474MA12D	0.47μF	±20%	25V
GRM155R61E683MA87D	0.068μF	±20%	25V
GRM155R61H333KE19D	0.033μF	±10%	50V
GRM155R61H333ME19D	0.033μF	±20%	50V
GRM155R61H473ME19D	0.047μF	±20%	50V
GRM155R61H683KE19D	0.068μF	±10%	50V
GRM155R61H683KE19J	0.068μF	±10%	50V
GRM155R61H683ME19D	0.068μF	±20%	50V
GRM15XR61A153KA86D	0.015μF	±10%	10V
GRM15XR61A153MA86D	0.015μF	±20%	10V
GRM15XR61A223KA86D	0.022μF	±10%	10V
GRM15XR61A223MA86D	0.022μF	±20%	10V
GRM15XR61A333KA86D	0.033μF	±10%	10V



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