

## High Q Chip Multilayer Ceramic Capacitors for General Purpose / GJM series

### Features

1. Better Q and low ESR at VHF, UHF and microwave frequencies
2. Copper inner electrode
3. Tight tolerance available

[W] = +/-0.05pF for under 9.9pF

[C] = +/-0.25pF for 1.0 to 9.9pF

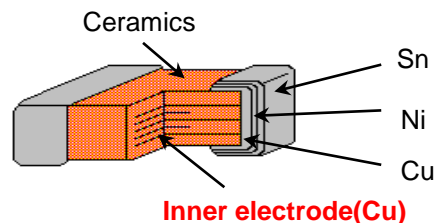
[F] = +/-1% for 10pF & over

[J] = +/-5% for 10pF & over

[B] = +/-0.1pF for under 9.9pF

[D] = +/-0.5pF for 5.1pF to 9.9pF

[G] = +/-2% for 10pF & over



4. Low power consumption, yield ratio improvement due to the better Q or lower ESR.
5. GJM series is suited to VCO or PA module applications.
6. GJM series is offered with a Ni barrier termination plated with Matter Tin (Sn), and is RoHS compliant.

### Global Part Numbering

**GJ M 03 3 5C 1E 1R0 C B01 D**  
**-1- -2- -3- -4- -5- -6- -7- -8- -9- -10-**

#### -1--Product ID

Code	Product
GJ	High Q Chip Multilayer Ceramic Capacitors

#### -2--Series

Code	Product
M	Tin Plated Termination

#### -3--Dimension (LxW)

Code	Dimension (LxW)
01	0.25x0.125mm (EIA:008004)
02	0.4x0.2mm (EIA:01005)
03	0.6x0.3mm (EIA:0201)
15	1.0x0.5mm (EIA:0402)

#### -4--Dimension (T)

Code	Dimension (T)
1	0.125mm
2	0.2mm
3	0.3mm
5	0.5mm

#### -5--Temperature Characteristics

Code	TC	Temp. Range	Temp. Coefficient	Operating Temp.
5C	C0G	25 to 125 degC	0+/-30ppm/C	-55 to 125 degC
5G	X8G	25 to 150 degC	0+/-30ppm/C	-55 to 125 degC

#### -6--Rated Voltage

Code	Rated Voltage
0J	DC 6.3V
1C	DC 16V
1E	DC 25V
1H	DC 50V
2A	DC 100V

#### -7--Capacitance

Code	Capacitance
R10	0.1pF
1R0	1pF
100	10pF

#### -8--Capacitance Tolerance

Code	Cap. Tol.	TC
W	+/-0.05pF	C0G, X8G (under 9.9pF)
B	+/-0.1pF	C0G, X8G (under 9.9pF)
C	+/-0.25pF	C0G, X8G (1.0 to 9.9pF)
D	+/-0.5pF	C0G, X8G (5.1 to 9.9pF)
F	+/-1%	C0G, X8G (10pF & over)
G	+/-2%	C0G, X8G (10pF & over)
J	+/-5%	C0G, X8G (10pF & over)

#### -9--Individual Specification Code

#### -10--Packaging

Code	Packaging
D	Φ180mm Paper Taping
L	Φ180mm Plastic Taping

Regarding detailed specifications, please check catalog or product specification.  
 Information in this PDF are as of Mar.2020. They are subject to change or our products in it may be discontinued without advance notice. Please check the latest information before usage of the products.

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### Chip size and Capacitance range



Type	Size mm (inch)	Chip T (mm)	TC	Rated Volt (Vdc)	Capacitance Range			
					1pF	10pF	100pF	
GJM01	0201M (008004)	0.125±0.013	C0G	25	0.2 - 10pF			(0.2 - 10pF)
GJM02	0402M (01005)	0.2±0.02		25	0.2 - 22pF			0.2 - 22pF
GJM03	0603M (0201)	0.3±0.03	X8G	16	0.2 - 22pF			0.2 - 22pF
				100	0.2 - 15pF (16 - 22pF)			0.2 - 15pF (16 - 22pF)
			C0G	100	0.2 - 15pF (16 - 22pF)			0.2 - 15pF (16 - 22pF)
				50	0.2 - 15pF			0.2 - 15pF
GJM15	1005M (0402)	0.5±0.05		25	0.2 - 33pF		0.2 - 33pF	
				50	0.1 - 47pF			0.1 - 47pF

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### Electric Characteristic Comparisons < GJM vs GRM >

MEASURING EQUIPMENT  
E5071C / E4991A (Keysight)

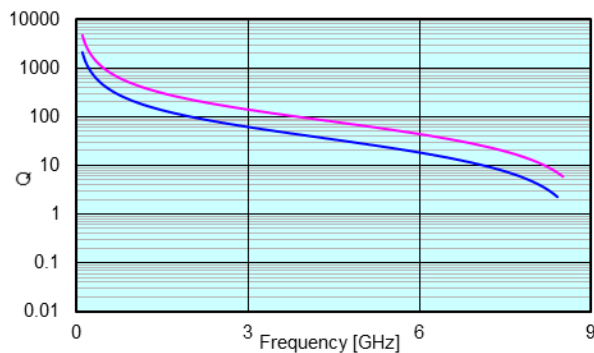
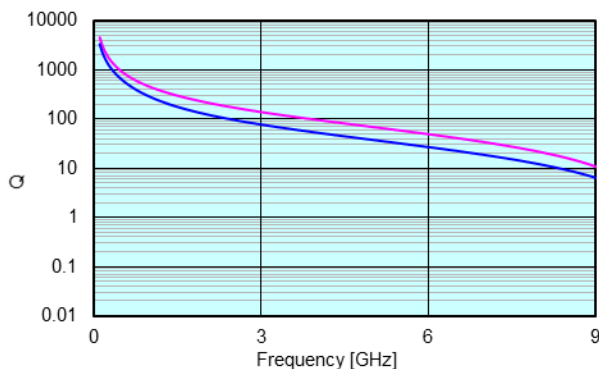
Q – Freq 0402Type

GJM02  
GRM02

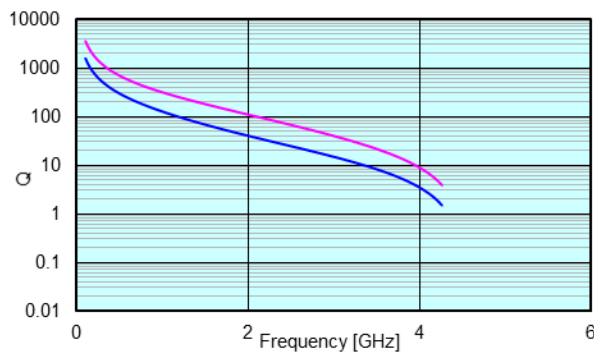
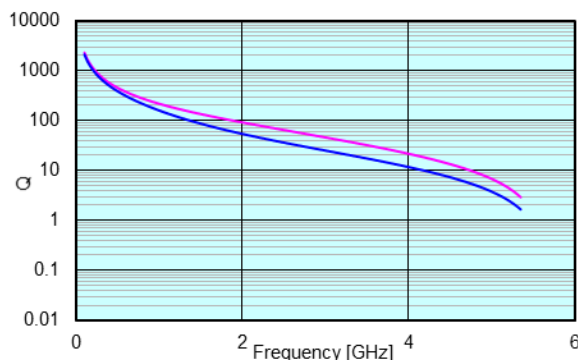
Q – Freq 0603Type

GJM03  
GRM03

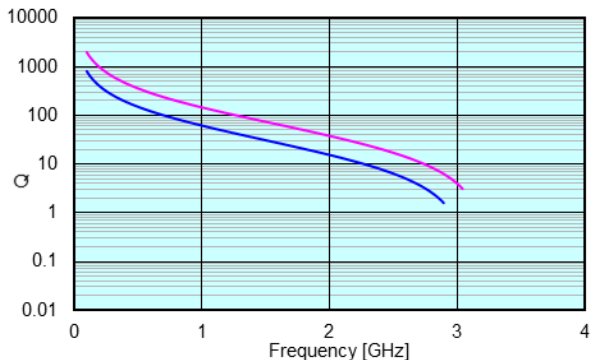
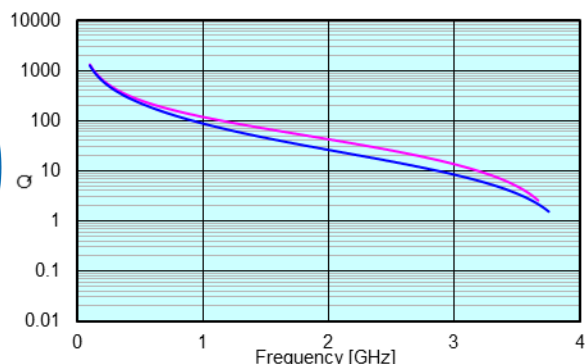
1pF



4.7pF



10pF



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