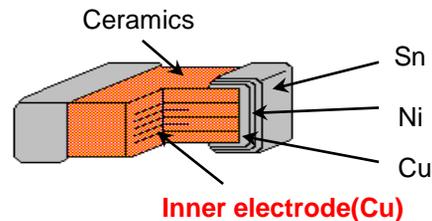


High Q and High Power Chip Multilayer Ceramic Capacitors for General Purpose / GQM series

Features

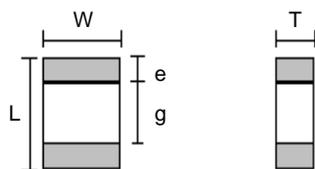
1. High Q and Low ESR at VHF, UHF, and Microwave Frequencies
2. Copper Inner Electrode
3. Tight Tolerance Available

[W] = +/-0.05pF for under 9.9pF **[B] = +/-0.1pF for under 9.9pF**
[C] = +/-0.25pF for 1.0 to 9.9pF **[D] = +/-0.5pF for 5.1pF to 9.9pF**
[F] = +/-1% for 10pF & over **[G] = +/-2% for 10pF & over**
[J] = +/-5% for 10pF & over



4. Realize High voltage withstand (500VDC product)
5. Low Power Consumption for Mobile Telecommunication, Base Station or Terminal applications.
6. GJM series is offered with a Ni barrier termination plated with Matter Tin (Sn), and is RoHS compliant.

Chip dimension



Unit:(mm)

Type	Size Code inch (mm)	L	W	T	e	g min.
GQM15	0402 (1005M)	1.0+/-0.05	0.5+/-0.05	0.5+/-0.05	0.25 to 0.05	0.4
GQM18	0603 (1608M)	1.6+/-0.15	0.8+/-0.15	0.7+/-0.1	0.2 to 0.5	0.5
GQM21	0805 (2012M)	2.0+/-0.15	1.25+/-0.15	0.85+/-0.15	0.2 to 0.7	0.7
GQM22	1111 (2828M)	2.8 ±0.5	2.8±0.4	1.15+/-0.2	0.3 min.	1.0

Global Part Numbering

GQ M 18 7 5C 2A 100 J B12 D
-1- -2- -3- -4- -5- -6- -7- -8- -9- -10-

-1-:Product ID

Code	Product
GQM	High Q and High Power Type

-2-:Series code

Code	Product
M	Tin Plated Termination

-3-:Dimension (LxW)

Code	Dimension (LxW)
03	0.6x0.3mm
15	1.0x0.5mm
18	1.6x0.8mm
21	2.0x1.25mm
22	2.8x2.8mm

-4-:Dimension (T)

Code	Dimension (T)
3	0.3mm
5	0.5mm
7	0.7mm
9	0.85mm
M	1.15mm

-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
2H	DC 500V
2E	DC 250V
2D	DC 200V
2A	DC 100V

-7-:Capacitance

Code	Capacitance
R50	0.5pF
1R0	1.0pF
5R6	5.6pF
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	φ 180mm Paper Taping
L	φ 180mm Embossed Taping

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Capacitance range

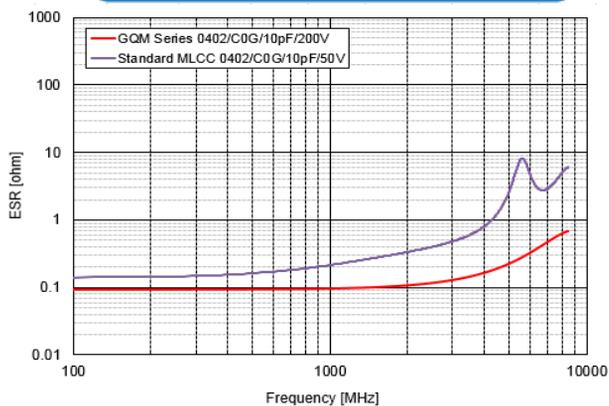


Type	Size Code inch (mm)	TC	Rated Volt (Vdc)	Capacitance Range [pF]				
				1	10	100	1000	
GQM03	0402(0603M)	X8G	200	[Green]				(0.2 - 22 pF)
		C0G		[Magenta]				(0.2 - 22 pF)
GQM15	0402(1005M)	X8G	100	[Magenta]				(0.1 - 33 pF)
		C0G		[Blue]				0.1 - 33 pF
GQM18	0603(1608M)	X8G	250	[Blue]				36 - 47 pF
		C0G		[Blue]				0.1 - 30 pF
GQM21	0805(2012M)	X8G	500	[Blue]				0.1 - 100 pF
			250	[Blue]				0.2 - 22 pF
		C0G	100	[Blue]				0.2 - 82 pF
GQM22	1111(2828M)	C0G	500	[Blue]				0.2 - 150 pF
			500	[Blue]				160 - 510 pF
GQM22	1111(2828M)	C0G	500	[Blue]				0.3 - 100 pF

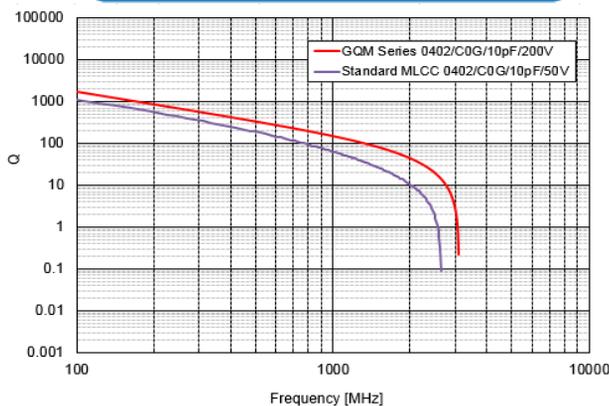
High Q and High Power Chip Multilayer Ceramic Capacitors for General Purpose / GQM series

Comparison of Electrical characteristics

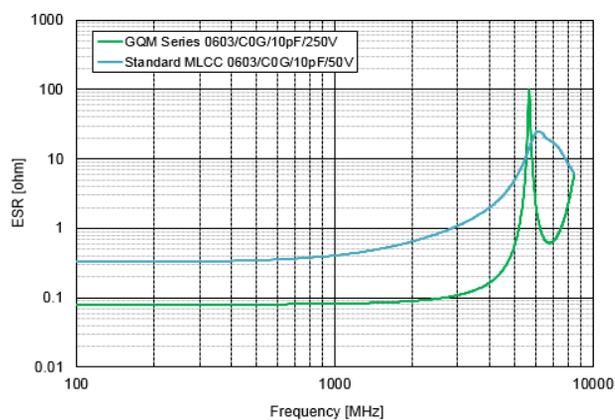
ESR – Freq. 0402/C0G/10pF



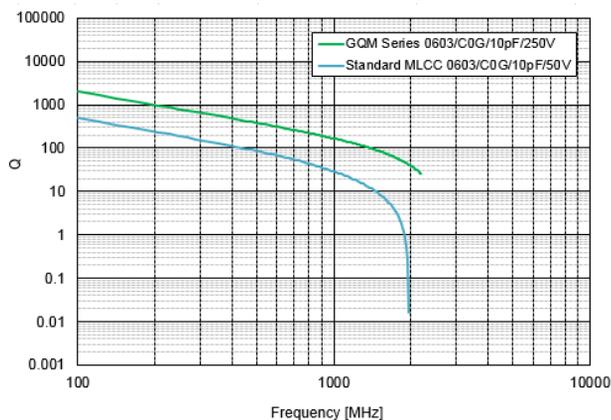
Q – Freq. 0402/C0G/10pF



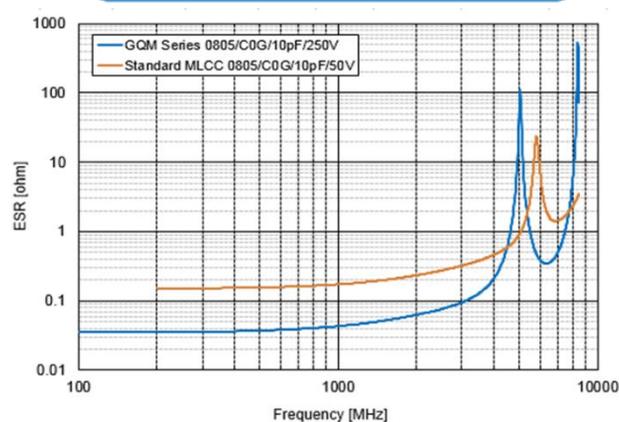
ESR – Freq. 0603/C0G/10pF



Q – Freq. 0603/C0G/10pF



ESR – Freq. 0805/C0G/10pF



Q – Freq. 0805/C0G/10pF

