CeramicCapacitor

GQM Series

RoHS REACH High Q

High Q and High Power Chip Multilayer Ceramic Capacitors for Consumer Electronics & Industrial Equipment (> 100Vdc)

High Frequency Capacitor Ideal for PA Design of Base Stations

Specific Applications Features Specifications Lineup

High-Q MLCC for RF Applications

Specific Applications

For the detail of specific applications, please refer to the following links or specification sheets.

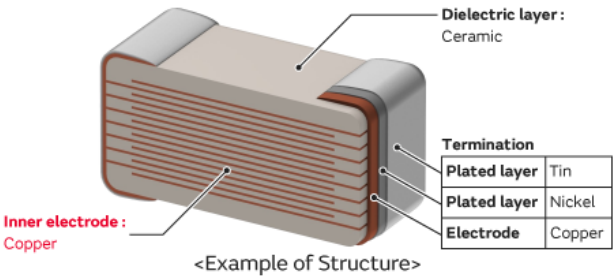
- Specific Applications Details
- Precautions for use

Consumer equipment	Industrial equipment	Automotive infotainment/comfort equipment	Automotive powertrain/safety equipment	Medical equipment [GHTF A/B/C] except for implant equipment	Implanted medical equip medical equipment [GHT
✓	✓	✓		✓	

Features

1. Mainly ideal for base stations of mobile communication devices and temperature compensation of related modules.

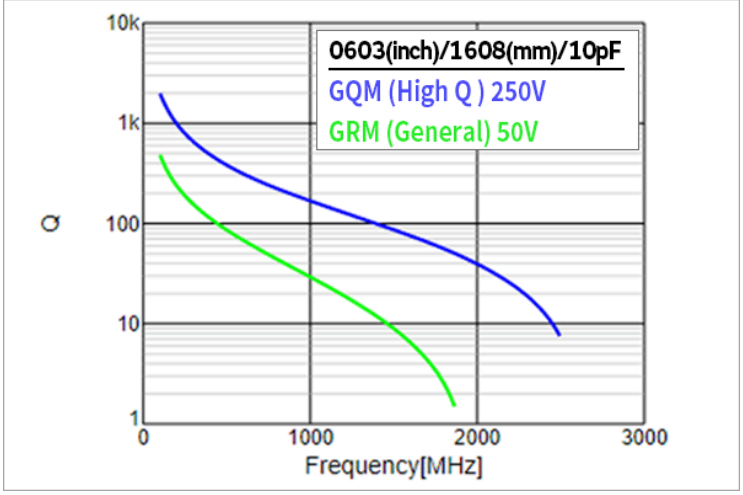
This product is ideal for temperature compensation of high frequency circuits, such as resonant circuits, tuning circuits, and impedance matching circuits where the operating characteristics of the device are greatly affected by the capacitance fluctuation.

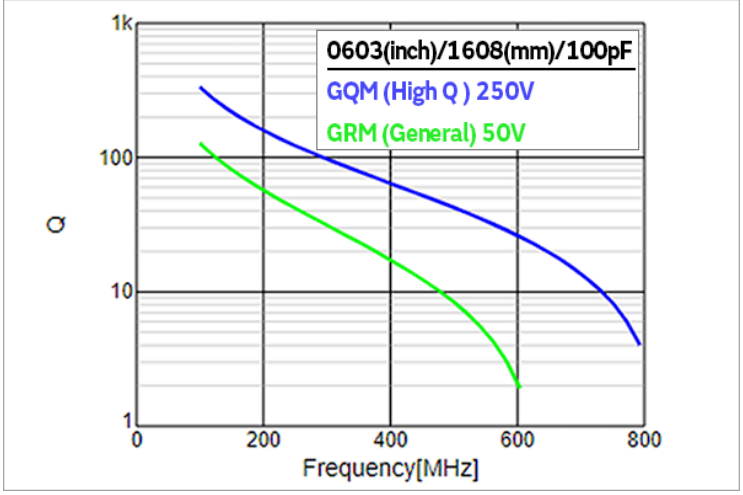


<Example of Structure>

2. High Q and low ESR in VHF, UHF and microwave frequency bands.

High Q and low ESR were achieved at a high frequency by adopting ceramic material as the dielectric material which enables an extremely low loss at high frequency, and base metal electrodes as the internal electrodes.





3. Can be used for tight tolerance.

In addition to standard tolerance, the allowable range of this product is also suitable for the following narrow tolerance.

Capacitance Range	Standard Capacitance Tolerance (Capacitance Tolerance Symbol)	Narrow Capacitance Tolerance (Capacitance Tolerance Symbol)
~0.9pF	±0.1pF (B)	±0.05pF (W)
1~5pF	±0.25pF (C)	±0.05pF (W)、±0.1pF (B)
5.1~9.9pF	±0.5pF (D)	±0.05pF (W)、±0.1pF (B)、±0.25pF (C)
10pF~	±5% (J)	±2% (G)

Specifications

Size (mm)	0.4x0.2mm - 2.8x2.8mm
Rated Voltage	200Vdc - 500Vdc
Capacitance	0.1pF - 150pF
Main applications	Measuring instruments,other ultra compact/thin devices

Lineup

Go to the part number list ? Download CSV ?

You can see the search result of the item you click on the capacitance chart.

Temperature compensating type

Use narrowed products' rows ?

Clearing all the conditions ?

Maximum operating temperature	☐ 125℃ ☐ 150℃
LxW	☐ 0.4×0.2 ☐ 0.6×0.3 ☐ 1.0×0.5 ☐ 1.6×0.8 ☐ 2.0×1.25 ☐ 2.8×2.8

Rated Voltage	☐ 200Vdc ☐ 250Vdc ☐ 500Vdc

Available Under development

Maximum operating temperature	LxW	Rated Voltage	Capacitance (pF: 0.1 1 10 100 1000 / μF: 0.01 0.1 1 10 100 1000)	Capacitance range
125℃	0.4×0.2	200Vdc		0.2pF - 10pF
	0.6×0.3	200Vdc		0.2pF - 22pF
	1.0×0.5	200Vdc		0.1pF - 33pF
	1.6×0.8	250Vdc		0.1pF - 100pF
	2.0×1.25	250Vdc		0.2pF - 150pF
	2.8×2.8	500Vdc		0.3pF - 100pF
150℃	0.4×0.2	200Vdc		0.2pF - 10pF
	0.6×0.3	200Vdc		0.2pF - 22pF
	1.0×0.5	200Vdc		0.1pF - 33pF
	1.6×0.8	250Vdc		0.1pF - 30pF
	2.0×1.25	500Vdc		0.2pF - 22pF
		250Vdc		0.2pF - 150pF

Ceramic Capacitor

- Polymer Aluminum Electrolytic Capacitors
- Single-Layer Microchip Capacitors
- Thin Film Circuit Substrates (RUSUB)
- Variable Capacitors
- Silicon Capacitors
- High Temperature Film Capacitor

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