

MURATA High Frequency Ceramic Chip Capacitors



RoHS Compliant This product is RoHS compliant.

GQM SERIES MULTILAYER, HIGH FREQUENCY, HIGH Q

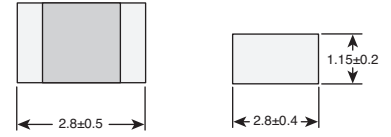
Murata has commercialized the GQM 500V Series low loss monolithic ceramic capacitor for high frequency applications. The GQM Series features low loss capacitors for RF power amplifiers used in mobile communication base stations and high-speed broadband base stations, and is a capacitor series ideal for VHF, UHF, and GHz frequency regions. With dimensions of 2.8x2.8x1.15mm and capacitance ranging from 0.5pF to 100pF, this product may be used for tight tolerance products around capacitance tolerance B3 ($\pm 0.1\text{pF}$). Ideal for matching or coupling circuits used in applications such as power amplifiers for mobile communication, WiMAX 4 and LTE 5 base stations, as well as other related high frequency RF modules, this product will help improve the high frequency characteristic of equipment.

Features:

- Design optimization using electromagnetic field and improved internal electrode design have strengthened magnetic coupling and stabilized self-response frequency
- High withstand voltage design
- Offers tight tolerance in the capacitance tolerance B ($\pm 0.1\text{pF}$) or C ($\pm 0.25\text{pF}$) range
- RoHS Compliant

Applications:

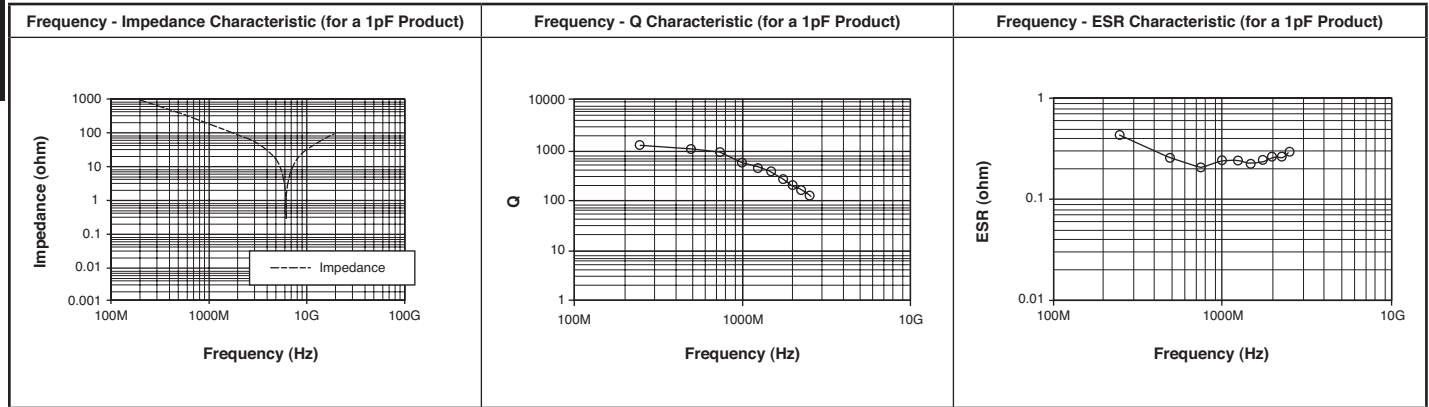
- Matching circuits, coupling circuits in power amplifiers for mobile communication
- WiMAX and LTE base stations



DIMENSIONS: mm

Specifications:

- Capacitance Range: 0.5pF - 100pF
- Rated Voltage: DC500V
- Operating Temp. Range: -55°C to +125°C
- Case Size: 1111
- Self-resonant frequency: over 4GHz (1pF)
- Packaging: Reel Qty. 1000 - 180mm embossed tape



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Value (pF)	Tol. \pm	Price Each				Reel Qty. 1000
Mfr.	Mfr. Part No.			1	50	100	500	
81	—GQM22M5C2HR50BB1L	0.5	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2HR75BB1L	0.75	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R0BB1L	1	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R1BB1L	1.1	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R2BB1L	1.2	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R3BB1L	1.3	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R5BB1L	1.5	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R6BB1L	1.6	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H1R8BB1L	1.8	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H2R0BB1L	2	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H2R2BB1L	2.2	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H2R4BB1L	2.4	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H2R7BB1L	2.7	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H3R0BB1L	3	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H3R3BB1L	3.3	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H3R6BB1L	3.6	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H3R9BB1L	3.9	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H4R0BB1L	4	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H4R3BB1L	4.3	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H4R7BB1L	4.7	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2H5R0BB1L	5	0.1pF	3.37	2.44	2.28	1.97	1.61
81	—GQM22M5C2HR50CB1L	0.5	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2HR75CB1L	0.75	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H1R0CB1L	1	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H1R5CB1L	1.5	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H2R0CB1L	2	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H3R0CB1L	3	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H4R0CB1L	4	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H5R0CB1L	5	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H5R1CB1L	5.1	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H5R6CB1L	5.6	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H6R0CB1L	6	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H6R2CB1L	6.2	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H6R8CB1L	6.8	0.25pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H7R0CB1L	7	0.25pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H7R5CB1L	7.5	0.25pF	2.13	1.53	1.40	1.14	.638

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Value (pF)	Tol. \pm	Price Each				Reel Qty. 1000
Mfr.	Mfr. Part No.			1	50	100	500	
81	—GQM22M5C2H8R0CB1L	8	0.25pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H8R2CB1L	8.2	0.25pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H9R0CB1L	9	0.25pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H9R1CB1L	9.1	0.25pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H6R0DB1L	6	0.5pF	1.93	1.39	1.27	1.04	.58
81	—GQM22M5C2H7R0DB1L	7	0.5pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H8R0DB1L	8	0.5pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H9R0DB1L	9	0.5pF	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H100GB1L	10	2%	3.72	2.69	2.52	2.17	1.77
81	—GQM22M5C2H120GB1L	12	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H150GB1L	15	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H180GB1L	18	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H200GB1L	20	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H220GB1L	22	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H270GB1L	27	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H330GB1L	33	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H390GB1L	39	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H470GB1L	47	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H560GB1L	56	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H680GB1L	68	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H820GB1L	82	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H101GB1L	100	2%	5.69	4.12	3.85	3.31	2.71
81	—GQM22M5C2H100JB1L	10	5%	2.13	1.53	1.40	1.14	.638
81	—GQM22M5C2H120JB1L	12	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H150JB1L	15	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H180JB1L	18	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H200JB1L	20	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H220JB1L	22	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H270JB1L	27	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H330JB1L	33	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H390JB1L	39	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H470JB1L	47	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H560JB1L	56	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H680JB1L	68	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H820JB1L	82	5%	2.28	1.75	1.66	1.39	.779
81	—GQM22M5C2H101JB1L	100	5%	2.28	1.75	1.66	1.39	.779