

MURATA Multilayer Ceramic Chip Capacitors

muRata
Innovator in Electronics



CERAMIC CHIP CAPACITORS

RoHS Compliant This product is RoHS compliant.



RoHS Compliant

Features:

- COG (NP0), X5R, X7R, Y5V, and Z5U dielectrics
- 6.3, 10, 16, 25, 50, and 100 Volts
- Available tolerances: $\pm 25\text{pF}$, $\pm 5\text{pF}$, $\pm 1\text{pF}$, 1%, 2%, 5%, 10%, 20%, +80/-20%
- Nickel barrier termination standard-highly resistant to metal migration
- No polarity
- For assistance with global part numbers, please contact a Mouser representative

DIMENSIONS: mm						
Part No.	Case	L	W	T (max)	e	g min.
GRM155	0402	1.0 \pm 0.05	0.5 \pm 0.05	0.5 \pm 0.05	0.15 to 0.3	0.4
GRM188	0603	1.6 \pm 0.1	0.8 \pm 0.1	0.8 \pm 0.1	0.2 to 0.5	0.5

01005 Available only from Murata

Style 0402

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price per Piece
					1	100		
Temperature Coefficient: COG								
81-GRM36C0R5C50	GRM1555C1HR50CZ01D	0.5	50	0.25pF	.03	.012	10000	.003
81-GRM36C010B50	GRM1555C1H1R0BZ01D	1	50	0.1pF	.07	.02	10000	.006
81-GRM36C1R5C50	GRM1555C1H1R5CZ01D	1.5	50	0.25pF	.03	.012	10000	.003
81-GRM1555C1H1R8CZ01	GRM1555C1H1R8CZ01D	1.8	50	0.25pF	.03	.012	10000	.003
81-GRM36C020C50	GRM1555C1H2R0CZ01D	2	50	0.25pF	.03	.012	10000	.003
81-GRM36C2R7C50	GRM1555C1H2R7CZ01D	2.7	50	0.25pF	.03	.012	10000	.003
81-GRM36C2R7B50	GRM1555C1H2R7BZ01D	2.7	50	0.1pF	.07	.02	10000	.006
81-GRM36C030C50	GRM1555C1H3R0CZ01D	3	50	0.25pF	.03	.012	10000	.003
81-GRM36C3R3C50	GRM1555C1H3R3CZ01D	3.3	50	0.25pF	.03	.012	10000	.003
81-GRM36C3R9C50	GRM1555C1H3R9CZ01D	3.9	50	0.25pF	.03	.012	10000	.003
81-GRM36C4R7C50	GRM1555C1H4R7CZ01D	4.7	50	0.25pF	.03	.012	10000	.003
81-GRM1555C1H10JZ01	GRM1555C1H10JZ01D	10	50	5%	.03	.012	10000	.003
81-GRM36C120J50	GRM1555C1H120JZ01D	12	50	5%	.03	.012	10000	.003
81-GRM36C150J50	GRM1555C1H150JZ01D	15	50	5%	.03	.012	10000	.003
81-GRM36C180J50	GRM1555C1H180JZ01D	18	50	5%	.03	.012	10000	.003
81-GRM36C220J50	GRM1555C1H220JZ01D	22	50	5%	.03	.012	10000	.003
81-GRM36C30J50	GRM1555C1H30JZ01D	33	50	5%	.03	.012	10000	.003
81-GRM36C470J50	GRM1555C1H470JZ01D	47	50	5%	.03	.012	10000	.003
81-GRM36C560J50	GRM1555C1H560JZ01D	56	50	5%	.07	.012	10000	.003
81-GRM1555C1H680JD01	GRM1555C1H680JD01D	68	50	5%	.07	.012	10000	.003
81-GRM1555C1H121JA01	GRM1555C1H121JA01D	120	50	5%	.08	.017	10000	.005
81-GRM1555C1H151JA01	GRM1555C1H151JA01D	150	50	5%	.07	.016	10000	.005
81-GRM1555C1H471JA01	GRM1555C1H471JA01D	470	50	5%	.05	.029	10000	.008
81-GRM36X221J50	GRM155R71H221JA01D	220	50	5%	.08	.017	10000	.005
Temperature Coefficient: X7R								
81-GRM155R71H221KA01	GRM155R71H221KA01D	220	50	10%	.07	.013	10000	.004
81-GRM155R72A221KA1D	GRM155R72A221KA01D	220	100	10%	.03	.02	10000	.005
81-GRM36X331K50	GRM155R71H331KA01D	330	50	10%	.07	.013	10000	.004
81-GRM155R72A331KA1D	GRM155R72A331KA01D	330	100	10%	.03	.02	10000	.005
81-GRM36X471K50	GRM155R71H471KA01D	470	50	10%	.07	.013	10000	.004
81-GRM155R72A471KA1D	GRM155R72A471KA01D	470	100	10%	.03	.02	10000	.005
81-GRM155R71H681KA01D	GRM155R71H681KA01D	680	50	10%	.07	.013	10000	.004
81-GRM155R72A681KA1D	GRM155R72A681KA01D	680	100	10%	.03	.02	10000	.005
81-GRM36X102K50	GRM155R71H102KA01D	1000	50	10%	.03	.012	10000	.004
81-GRM155R72A102KA1D	GRM155R72A102KA01D	1000	100	10%	.03	.012	10000	.005
81-GRM36X152K50	GRM155R71H152KA01D	1500	50	10%	.03	.012	10000	.004
81-GRM155R72A152KA1D	GRM155R72A152KA01D	1500	100	10%	.03	.018	10000	.006
81-GRM36X222K50	GRM155R71H222KA01D	2200	50	10%	.03	.012	10000	.004
81-GRM155R72A222KA1D	GRM155R72A222KA01D	2200	100	10%	.03	.012	10000	.005
81-GRM36X332K50	GRM155R71H332KA01D	3300	50	10%	.03	.012	10000	.004
81-GRM155R72A332KA1D	GRM155R72A332KA01D	3300	100	10%	.08	.017	10000	.005
81-GRM36X472K25	GRM155R71H472KA01D	4700	25	10%	.03	.012	10000	.004
81-GRM155R71H472KA01	GRM155R71H472KA01D	4700	50	10%	.03	.012	10000	.004
81-GRM155R72A472KA01	GRM155R72A472KA01D	4700	100	10%	.03	.012	10000	.005
81-GRM155R71E682KA01D	GRM155R71E682KA01D	6800	25	10%	.03	.012	10000	.004
81-GRM155R71H682KA8D	GRM155R71H682KA88D	6800	50	10%	.07	.016	10000	.005
81-GRM36X103K16	GRM155R71C103KA01D	.01µF	16	10%	.03	.012	10000	.004
81-GRM36X103K25	GRM155R71E103KA01D	.01µF	25	10%	.03	.012	10000	.004
81-GRM155R71H103KA8D	GRM155R71H103KA88D	.01µF	50	10%	.02	.009	10000	.003
81-GRM155R71C153KA1D	GRM155R71C153KA01D	.015µF	16	10%	.07	.016	10000	.005
81-GRM155R71E153KA6D	GRM155R71E153KA61D	.015µF	25	10%	.05	.016	10000	.005
81-GRM155R71H153KA2D	GRM155R71H153KA12D	.015µF	50	10%	.05	.016	10000	.005
81-GRM155R71C223KA01	GRM155R71C223KA01D	.022µF	16	10%	.07	.015	10000	.004
81-GRM155R71E223KA6D	GRM155R71E223KA61D	.022µF	25	10%	.05	.016	10000	.005
81-GRM155R71H223KA12	GRM155R71H223KA12D	.022µF	50	10%	.05	.016	10000	.005
81-GRM36X333K10	GRM155R71A333KA01D	.033µF	10	10%	.07	.02	10000	.006
81-GRM155R71E333KA8D	GRM155R71E333KA88D	.033µF	25	10%	.04	.026	10000	.007
81-GRM36X473K10	GRM155R71A473KA01D	.047µF	10	10%	.07	.016	10000	.005
81-GRM155R71C473KA01	GRM155R71C473KA01D	.047µF	16	10%	.03	.012	10000	.005
81-GRM155R71E473KA88	GRM155R71E473KA88D	.047µF	25	10%	.03	.019	10000	.006
81-GRM155R71A683KA1D	GRM155R71A683KA01D	.068µF	10	10%	.07	.02	10000	.006
81-GRM155R71C683KA8D	GRM155R71C683KA88D	.068µF	16	10%	.09	.04	10000	.024
81-GRM155R71C104KA88	GRM155R71C104KA88D	0.1µF	16	10%	.02	.009	10000	.003
Temperature Coefficient: X5R								
81-GRM155R61A154KE9D	GRM155R61A154KE19D	.15µF	10	10%	.15	.08	10000	.017
81-GRM155R60J224KE01	GRM155R60J224KE01D	.22µF	6.3	10%	.25	.12	10000	.011
81-GRM155R61A224KE19	GRM155R61A224KE19D	.22µF	10	10%	.12	.045	10000	.009
81-GRM155R60J334KE01	GRM155R60J334KE01D	.33µF	6.3	10%	.09	.054	10000	.015
81-GRM155R61A334KE5D	GRM155R61A334KE15D	.33µF	10	10%	.09	.054	10000	.015
81-GRM155R61A474KE5D	GRM155R61A474KE15D	.47µF	10	10%	.08	.052	10000	.014

Style 0402 (Cont.)

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price per Piece
					1	100		
Temperature Coefficient: X5R (Cont.)								
81-GRM155R60J684KE1D	GRM155R60J684KE01D	.68µF	6.3	10%	.13	.089	10000	.022
81-GRM155R61A684KE5D	GRM155R61A684KE15D	.68µF	10	10%	.09	.056	10000	.02
Temperature Coefficient: Y5V								
81-GRM36Y104Z16	GRM155F51C104ZA01D	.1µF	16	+80,-20	.02	.009	10000	.003
81-GRM36Y224Z10	GRM155F51A224ZE01D	.22µF	10	+80,-20	.17	.111	10000	.028
81-GRM155F51A474ZE01	GRM155F51A474ZE01D	.47µF	10	+80,-20	.08	.028	10000	.008

Style 0603

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price per Piece
					1	100		
Temperature Coefficient: COG								
81-GRM39C0R5C50	GRM1885C1HR50CZ01D	0.5	50	.25pF	.09	.025	4000	.006
81-GRM1885C1H1R0BZ	GRM1885C1H1R0BZ01D	1	50	0.1pF	.07	.044	4000	.012
81-GRM39C1R2B50	GRM1885C1H1R2BZ01D	1.2	50	0.1pF	.07	.044	4000	.012
81-GRM39C020C50	GRM1885C1H2R0CZ01D	2	50	.25pF	.09	.025	4000	.006
81-GRM39C2R2B50	GRM1885C1H2R2BZ01D	2.2	50	0.1pF	.07	.044	4000	.012
81-GRM39C3R9B50	GRM1885C1H3R9BZ01D	3.9	50	0.1pF	.07	.044	4000	.012
81-GRM39C4R7C50	GRM1885C1H4R7CZ01D	4.7	50	.25pF	.09	.026	4000	.007
81-GRM1885C1H5R0CZ01D	GRM1885C1H5R0CZ01D	5	50	.25pF	.09	.025	4000	.006
81-GRM39C5R6C50	GRM1885C1H5R6CZ01D	5.6	50	.25pF	.06	.041	4000	.01
81-GRM1885C1H6R8CZ01	GRM1885C1H6R8CZ01D	6.8	50	.25pF	.07	.041	4000	.012
81-GRM39C8R2C50	GRM1885C1H8R2CZ01D	8.2	50	.25pF	.06	.041	4000	.01
81-GRM39C100D50	GRM1885C1H100JA01D	10	50	5%	.04	.025	4000	.006
81-GRM39C120J50	GRM1885C1H120JA01D	12	50	5%	.09	.025	4000	.006
81-GRM39C150J50	GRM1885C1H150JA01D	15	50	5%	.09	.025	4000	.006
81-GRM39C180J50	GRM1885C1H180JA01D	18	50	5%	.09	.025	4000	.006
81-GRM39C200J50	GRM1885C1H200JA01D	20	50	5%	.04	.028	4000	.008
81-GRM39C220J50	GRM1885C1H220JA01D	22	50	5%	.04	.025	4000	.006
81-GRM1885C2A220JA01	GRM1885C2A220JA01D	22						