

# MURATA Multilayer Ceramic Chip Capacitors



## CERAMIC CHIP CAPACITORS

RoHS Compliant This product is RoHS compliant.

### Features:

- COG (NP0), X5R, X7R, Y5V, and Z5U Dielectrics
- 6.3, 10, 16, 25, 50, 100, 200, 250, and 500 Volts
- Available tolerances: ±25pF, ±5pF, ±1pF, 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



01005 Available only from Murata

### DIMENSIONS: mm

Part No.	Case	L	W	T (max)	e	g min.
GRM022	01005	0.4±0.02	0.2±0.02	0.2±0.02	0.07±0.141	0.13
GRM033	0201	0.6±0.03	0.3±0.03	0.3±0.03	0.1 to 0.2	0.2

### Style 01005

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		
<b>Temperature Coeff: X5R</b>								
81-GRM022R60J681KD	GRM022R60J681KE19D	680	6.3	10%	.22	.142	20000	.038
81-GRM022R60J102KD	GRM022R60J102KE19D	1,000	6.3	10%	.22	.142	20000	.038
81-GRM022R60J152KD	GRM022R60J152KE19D	1,500	6.3	10%	.22	.142	20000	.038
81-GRM022R60J222KD	GRM022R60J222KE19D	2,200	6.3	10%	.22	.142	20000	.038
81-GRM022R60J332KD	GRM022R60J332KE19D	3,300	6.3	10%	.10	.04	20000	.015
81-GRM022R60J472KD	GRM022R60J472KE19D	4,700	6.3	10%	.22	.142	20000	.038
81-GRM022R60J682KD	GRM022R60J682KE19D	6,800	6.3	10%	.22	.142	20000	.038
81-GRM022R60J103KD	GRM022R60J103KE19D	10,000	6.3	10%	.22	.142	20000	.038

### Style 0201 (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		
<b>Temperature Coeff: C0G (Cont.)</b>								
81-GRM0335C1H8R2DD1D	GRM0335C1H8R2DD01D	8.2	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E9R0DD1D	GRM0335C1E9R0DD01D	9	25	0.5pF	.09	.008	15000	.004
81-GRM0335C1H9R0DD1D	GRM0335C1H9R0DD01D	9	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E100JD01D	GRM0335C1E100JD01D	10	25	5%	.10	.021	15000	.007
81-GRM0335C1H100JD01D	GRM0335C1H100JD01D	10	50	5%	.09	.008	15000	.004
81-GRM0335C1E120JD01D	GRM0335C1E120JD01D	12	25	5%	.09	.008	15000	.004
81-GRM0335C1H120JD01D	GRM0335C1H120JD01D	12	50	5%	.09	.008	15000	.004
81-GRM0335C1E150JD01D	GRM0335C1E150JD01D	15	25	5%	.09	.008	15000	.004
81-GRM0335C1H150JD01D	GRM0335C1H150JD01D	15	50	5%	.09	.008	15000	.004
81-GRM0335C1E180JD01D	GRM0335C1E180JD01D	18	25	5%	.09	.008	15000	.004
81-GRM0335C1H180JD01D	GRM0335C1H180JD01D	18	50	5%	.09	.008	15000	.004
81-GRM0335C1E220JD01D	GRM0335C1E220JD01D	22	25	5%	.09	.008	15000	.004
81-GRM0335C1H220JD01D	GRM0335C1H220JD01D	22	50	5%	.09	.008	15000	.004
81-GRM0335C1E270JD01D	GRM0335C1E270JD01D	27	25	5%	.09	.008	15000	.004
81-GRM0335C1H270JD01D	GRM0335C1H270JD01D	27	50	5%	.09	.008	15000	.004
81-GRM0335C1E330JD01D	GRM0335C1E330JD01D	33	25	5%	.09	.008	15000	.004
81-GRM0335C1E390JD01D	GRM0335C1E390JD01D	39	25	5%	.09	.008	15000	.004
81-GRM0335C1H390JD01D	GRM0335C1H390JD01D	39	50	5%	.09	.008	15000	.004
81-GRM0335C1E470JD01D	GRM0335C1E470JD01D	47	25	5%	.09	.008	15000	.004
81-GRM0335C1H470JD01D	GRM0335C1H470JD01D	47	50	5%	.09	.008	15000	.004
81-GRM0335C1E560JD01D	GRM0335C1E560JD01D	56	25	5%	.09	.008	15000	.004
81-GRM0335C1H560JD01D	GRM0335C1H560JD01D	56	50	5%	.09	.008	15000	.004
81-GRM0335C1E680JD01D	GRM0335C1E680JD01D	68	25	5%	.09	.008	15000	.004
81-GRM0335C1H680JD01D	GRM0335C1H680JD01D	68	50	5%	.09	.008	15000	.004
81-GRM0335C1E820JD01D	GRM0335C1E820JD01D	82	25	5%	.09	.008	15000	.004
81-GRM0335C1H820JD01D	GRM0335C1H820JD01D	82	50	5%	.09	.008	15000	.004
81-GRM0335C1E101JD01D	GRM0335C1E101JD01D	100	25	5%	.09	.008	15000	.004
81-GRM0335C1H101JD01D	GRM0335C1H101JD01D	100	50	5%	.09	.008	15000	.004

### Style 0201

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		
<b>Temperature Coeff: C0G</b>								
81-GRM0335C1H1R0CD01D	GRM0335C1H1R0CD01D	1	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E1R2CD01D	GRM0335C1E1R2CD01D	1.2	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H1R2CD01D	GRM0335C1H1R2CD01D	1.2	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E1R5CD01D	GRM0335C1E1R5CD01D	1.5	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H1R5CD01D	GRM0335C1H1R5CD01D	1.5	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E1R8CD01D	GRM0335C1E1R8CD01D	1.8	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E2R0CD01D	GRM0335C1E2R0CD01D	2	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H2R0CD01D	GRM0335C1H2R0CD01D	2	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E2R2CD01D	GRM0335C1E2R2CD01D	2.2	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H2R2CD01D	GRM0335C1H2R2CD01D	2.2	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E2R7CD01D	GRM0335C1E2R7CD01D	2.7	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1E3R0CD01D	GRM0335C1E3R0CD01D	3	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H3R0CD01D	GRM0335C1H3R0CD01D	3	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E3R3CD01D	GRM0335C1E3R3CD01D	3.3	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H3R3CD01D	GRM0335C1H3R3CD01D	3.3	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E3R9CD01D	GRM0335C1E3R9CD01D	3.9	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H3R9CD01D	GRM0335C1H3R9CD01D	3.9	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E4R0CD01D	GRM0335C1E4R0CD01D	4	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H4R0CD01D	GRM0335C1H4R0CD01D	4	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E4R7CD01D	GRM0335C1E4R7CD01D	4.7	25	0.25pF	.09	.008	15000	.004
81-GRM0335C1H4R7CD01D	GRM0335C1H4R7CD01D	4.7	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E5R0CD01D	GRM0335C1E5R0CD01D	5	50	0.25pF	.09	.008	15000	.004
81-GRM0335C1E5R6DD01D	GRM0335C1E5R6DD01D	5.6	25	0.5pF	.09	.008	15000	.004
81-GRM0335C1H5R6DD01D	GRM0335C1H5R6DD01D	5.6	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E6R0DD01D	GRM0335C1E6R0DD01D	6	25	0.5pF	.09	.008	15000	.004
81-GRM0335C1H6R0DD01D	GRM0335C1H6R0DD01D	6	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E6R8DD01D	GRM0335C1E6R8DD01D	6.8	25	0.5pF	.09	.008	15000	.004
81-GRM0335C1H6R8DD01D	GRM0335C1H6R8DD01D	6.8	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E7R0DD01D	GRM0335C1E7R0DD01D	7	25	0.5pF	.09	.008	15000	.004
81-GRM0335C1H7R0DD01D	GRM0335C1H7R0DD01D	7	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E8R0DD01D	GRM0335C1E8R0DD01D	8	25	0.5pF	.09	.008	15000	.004
81-GRM0335C1H8R0DD01D	GRM0335C1H8R0DD01D	8	50	0.5pF	.09	.008	15000	.004
81-GRM0335C1E8R2DD01D	GRM0335C1E8R2DD01D	8.2	25	0.5pF	.09	.008	15000	.004

MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price Per Piece
					1	100		
<b>Temperature Coefficient X7R</b>								
81-GRM033R71E101KA1D	GRM033R71E101KA01D	100	25	10%	.09	.008	15000	.004
81-GRM033R71E151KA1D	GRM033R71E151KA01D	150	25	10%	.09	.008	15000	.004
81-GRM033R71E221KA1D	GRM033R71E221KA01D	220	25	10%	.09	.008	15000	.004
81-GRM033R71E331KA1D	GRM033R71E331KA01D	330	25	10%	.09	.008	15000	.004
81-GRM033R71E471KA1D	GRM033R71E471KA01D	470	25	10%	.09	.008	15000	.004
81-GRM033R71E681KA1D	GRM033R71E681KA01D	680	25	10%	.09	.008	15000	.004
81-GRM033R71E102KA1D	GRM033R71E102KA01D	1000	25	10%	.09	.008	15000	.004
81-GRM033R71E152KA01D	GRM033R71E152KA01D	1500	25	10%	.09	.008	15000	.004
81-GRM033R71C222KA88D	GRM033R71C222KA88D	2200	16	10%	.09	.008	15000	.004
81-GRM033R71C332KA88D	GRM033R71C332KA88D	3300	16	10%	.09	.008	15000	.004
81-GRM033R71A472KA1D	GRM033R71A472KA01D	4700	10	10%	.09	.008	15000	.004
81-GRM033R71A682KA1D	GRM033R71A682KA01D	6800	10	10%	.09	.008	15000	.004
81-GRM033R71A103KA1D	GRM033R71A103KA01D	0.1µF	10	10%	.09	.008	15000	.004
<b>Temperature Coefficient X5R</b>								
81-GRM033R60J153KE1D	GRM033R60J153KE01D	.015µF	6.3	10%	.09	.019	15000	.005
81-GRM033R60J223KE1D	GRM033R60J223KE01D	.022µF	6.3	10%	.09	.019	15000	.005
81-GRM033R60J333KE01	GRM033R60J333KE01	.033µF	6.3	10%	.09	.012	15000	.005
81-GRM033R60J473KE19	GRM033R60J473KE19D	.047µF	6.3	10%	.09	.012	15000	.006
81-GRM033R60J683KE9D	GRM033R60J683KE19D	.068µF	6.3	10%	.09	.012	15000	.005
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