

# MURATA Multilayer Ceramic Chip Capacitors



## CERAMIC CHIP CAPACITORS

RoHS Compliant This product is RoHS compliant.



### Features:

- No polarity
- C0G (NP0), X5R, X7R, Y5V, and Z5U Dielectrics
- 6.3, 10, 16, 25, 50, and 100 Volts
- Available tolerances: ±.25pF, ±.5pF, ±.1pF, 1%, 2%, 5%, 10%, 20%, +80/-20%
- Nickel Barrier Termination standard- highly resistant to metal migration
- For assistance with Global Part Numbers, please contact a Mouser representative

### Style 0603 (Cont.)

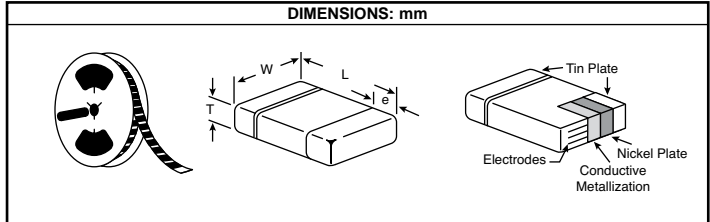
Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price per Piece
					1	100		
<b>Temperature Coeff: X5R</b>								
81-GRM39R474K10	GRM188R61A474KA61D	0.47µF	10	10%			4000	
<b>Temperature Coeff: Y5V</b>								
81-GRM39Y104Z16D	GRM188F51C104ZA01D	0.1µF	16	+80,-20			4000	
81-GRM39Y104Z25D	GRM188F51E104ZA01D	0.1µF	25	+80,-20			4000	
81-GRM188F5YA104ZA28D	GRM188F5YA104ZA28D	0.1µF	35	+80,-20			4000	
81-GRM39Y224Z16D	GRM188F51C224ZA01D	0.22µF	16	+80,-20			4000	

### Style 0805

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

<b>Temperature Coeff: C0G</b>								
MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price per Piece
					1	100		
81-GRM40C10C50D	GRM2165C1H1R0C0D01D	1	50	.25pF			4000	
81-GRM40C1R5C50D	GRM2165C1H1R5C0D01D	1.5	50	.25pF			4000	
81-GRM40C2R2C50D	GRM2165C1H2R2C0D01D	2.2	50	.25pF			4000	
81-GRM2165C1H3R0C0D	GRM2165C1H3R0C0D01D	3	50	.25pF			4000	
81-GRM40C3R3C50D	GRM2165C1H3R3C0D01D	3.3	50	.25pF			4000	
81-GRM2165C1H4R0C0D	GRM2165C1H4R0C0D01D	4	50	.25pF			4000	
81-GRM40C4R7C50D	GRM2165C1H4R7C0D01D	4.7	50	.25pF			4000	
81-GRM40C5R6C50D	GRM2165C1H5R6C0D01D	5.6	50	.25pF			4000	
81-GRM2165C1H6R8C0D01	GRM2165C1H6R8C0D01D	6.8	50	.25pF			4000	
81-GRM2165C1H7R0CZ	GRM2165C1H7R0CZ01D	7	50	.25pF			4000	
81-GRM40C8R2C50D	GRM2165C1H8R2C01D	8.2	50	.25pF			4000	
81-GRM40C100D50D	GRM2165C1H100JZ01D	10	50	5%			4000	
81-GRM2165C1H120JZ	GRM2165C1H120JZ01D	12	50	5%			4000	
81-GRM40C150J50D	GRM2165C1H150JZ01D	15	50	5%			4000	
81-GRM40C180J50D	GRM2165C1H180JZ01D	18	50	5%			4000	
81-GRM40C200J50D	GRM2165C1H200JZ01D	20	50	5%			4000	
81-GRM2165C1H220JZ	GRM2165C1H220JZ01D	22	50	5%			4000	
81-GRM40C270J50D	GRM2165C1H270JZ01D	27	50	5%			4000	
81-GRM40C300J50D	GRM2165C1H300JZ01D	30	50	5%			4000	
81-GRM2165C1H330JZ	GRM2165C1H330JZ01D	33	50	5%			4000	
81-GRM40C390J50D	GRM2165C1H390JZ01D	39	50	5%			4000	
81-GRM2165C1H470JZ	GRM2165C1H470JZ01D	47	50	5%			4000	
81-GRM40C680J50D	GRM2165C1H680JZ01D	68	50	5%			4000	
81-GRM2165C1H820JZ	GRM2165C1H820JZ01D	82	50	5%			4000	
81-GRM40C101J50D	GRM2165C1H101JA01D	100	50	5%			4000	
81-GRM215C2A101JA01D	GRM2165C2A101JA01D	100	100	5%			4000	
81-GRM2165C1H121JA	GRM2165C1H121JA01D	120	50	5%			4000	
81-GRM40C151J50D	GRM2165C1H151JA01D	150	50	5%			4000	
81-GRM2165C1H181JA	GRM2165C1H181JA01D	180	50	5%			4000	
81-GRM40C221J50D	GRM2165C1H221JA01D	220	50	5%			4000	
81-GRM40C331J50D	GRM2165C1H331JA01D	330	50	5%			4000	
81-GRM40C391J50D	GRM2165C1H391JA01D	390	50	5%			4000	
81-GRM215C2A471JA01L	GRM2165C2A471JA01L	470	100	5%			4000	
81-GRM40C561J50D	GRM2165C1H561JA01D	560	50	5%			4000	
81-GRM40C681J50D	GRM2165C1H681JA01D	680	50	5%			4000	
81-GRM40C102J50D	GRM2165C1H102JA01D	1000	50	5%			4000	
81-GRM2165C1H152JA01	GRM2165C1H152JA01D	1500	50	5%			4000	
<b>Temperature Coeff: X7R</b>								
81-GRM40X221K50D	GRM216R71H221KA01D	220	50	10%			4000	
81-GRM40X471K50D	GRM216R71H471KA01D	470	50	10%			4000	
81-GRM40X102K50D	GRM216R71H102KA01D	1000	50	10%			4000	
81-GRM40X102K100D	GRM219R72A102KA01D	1000	100	10%			4000	
81-GRM40X152K50D	GRM216R71H152KA01D	1500	50	10%			4000	
81-GRM40X222K50D	GRM216R71H222KA01D	2200	50	10%			4000	
81-GRM40X332K50D	GRM216R71H332KA01D	3300	50	10%			4000	
81-GRM40X392K50D	GRM216R71H392KA01D	3900	50	10%			4000	
81-GRM216R71H472KA	GRM216R71H472KA01D	4700	50	10%			4000	
81-GRM40X682K50D	GRM216R71H682KA01D	6800	50	10%			4000	
81-GRM216R71E103KA01	GRM216R71E103KA01D	10000	25	10%			4000	
81-GRM40X103K50D	GRM216R71H103KA01D	10000	50	10%			4000	
81-GRM40X153K50D	GRM216R71H153KA01D	15000	50	10%			4000	
81-GRM40X223K50D	GRM216R71H223KA01D	22000	50	10%			4000	
81-GRM40X333K50D	GRM219R71H333KA01D	33000	50	10%			4000	
81-GRM40X473K25L	GRM219R71E473KA01L	47000	25	10%			3000	
81-GRM40X473K50L	GRM21BR71H473KA01L	47000	50	10%			3000	
81-GRM40X683K50L	GRM21BR71H683KA01L	68000	50	10%			3000	
81-GRM40X104K16D	GRM219R71C104KA01D	0.1µF	16	10%			4000	
81-GRM40X104K25L	GRM21BR71E104KA01L	0.1µF	25	10%			3000	
81-GRM40X104K50L	GRM21BR71H104KA01L	0.1µF	50	10%			3000	
81-GRM40X154K16L	GRM21BR71C154KA01L	0.15µF	16	10%			4000	
81-GRM40X224K16D	GRM219R71E224KA01D	0.22µF	16	10%			3000	
81-GRM219R71E224KA01	GRM219R71E224KA01L	0.22µF	25	10%			3000	
81-GRM40X7R224K050AL	GRM21BR71H224KA01L	0.22µF	50	10%			3000	
81-GRM40X334K16L	GRM21BR71C334KA01L	0.33µF	16	10%			3000	
81-GRM40X474K16L	GRM219R71C474KA01L	0.47µF	16	10%			3000	
<b>Temperature Coeff: Y5V</b>								
81-GRM40Y104Z25D	GRM216F51E104ZA01D	0.1µF	25	+80,-20			4000	
81-GRM40Y104Z50D	GRM219F51H104ZA01D	0.1µF	50	+80,-20			4000	
81-GRM40Y224Z25D	GRM219F51E224ZA01D	0.22µF	25	+80,-20			4000	
81-GRM40Y474Z16D	GRM21BF51C474ZA01L	0.47µF	16	+80,-20			3000	



Part No.	L	W	T (max)	e	g min.
GRM216	2.0 ±0.1	1.25 ±0.1	0.6 ±0.1	0.2 to 0.7	0.7
GRM219			0.85 ±0.1		
GRM21B			1.25 ±0.1		
GRM316	3.2 ±0.15	1.6 ±0.15	0.6 ±0.1	0.3 to 0.8	1.5
GRM319			0.85 ±0.1		
GRM31M			1.15 ±0.1		
GRM32M	3.2 ±0.3	2.5 ±0.2	1.15 ±0.1	0.3	1.0
GRM32N	3.2 ±0.2	2.5 ±0.2	1.35 ±0.15	0.3	1.0
GRM43R	4.5 ±0.4	3.2 ±0.3	1.8 ±0.2	0.3	2.0

### Style 0805 (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: Y5V (Cont.)</b>								
81-GRM40Y5V474Z025AL	GRM21BF51E474ZA01L	0.47µF	25	+80,-20			3000	
<b>Temperature Coeff: Z5U</b>								
81-GRM40Z473M50D	GRM216E41H473MA01D	47000	50	20%			4000	
81-GRM40Z104M50D	GRM219E41H104MA01D	0.1µF	50	20%			4000	

### Style 1206

For quantities greater than listed, call for quote.

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-GRM426C180J050D	GRM3165C1H180JZ01D	18pF	50	5%			4000	
81-GRM315C1H470JZ01D	GRM3165C1H470JZ01D	47pF	50	5%			4000	
81-GRM426C101J050D	GRM3165C1H101JZ01D	100pF	50	5%			4000	
81-GRM426C221J050D	GRM3165C1H221JZ01D	220pF	50	5%			4000	
81-GRM426C331J050D	GRM3165C1H331JZ01D	330pF	50	5%			4000	
81-GRM426C681J050D	GRM3165C1H681JZ01D	680pF	50	5%			4000	
81-GRM426C102J050L	GRM3195C1H102JA01D	1000pF	50	5%			3000	
<b>Temperature Coeff: X7R</b>								
81-GRM319R71H102KA01	GRM319R71H102KA01D	1000	50	10%			4000	
81-GRM319R71H103KA01	GRM319R71H103KA01D	.01µF	50	10%			4000	
81-GRM426X223K50D	GRM319R71H223KA01D	.022µF	50	10%			4000	
81-GRM426X473K50D	GRM319R71H473KA01D	.047µF	50	10%			4000	
81-GRM426X104K50L	GRM319R71H104KA01L	.1µF	50	10%			3000	
81-GRM31MR71H154KA01	GRM31MR71H154KA01L	.15µF	50	10%			3000	
81-GRM426X224K25L	GRM31MR71E224KA01L	.22µF	25	10%			3000	
81-GRM319R71H224KA	GRM319R71H224KA01D	.22µF	50	10%			4000	
81-GRM319R71C334KA01	GRM319R71C334KA01L	.33µF	16	10%			4000	
81-GRM426X334K025D	GRM319R71E334KA01D	.33µF	25	10%			4000	
81-GRM426X334K50D	GRM319R71H334KA01D	.33µF	50	10%			4000	
81-GRM426X474K16D	GRM319R71C474KA01D	.47µF	16	10%			4000	
81-GRM426X474K50L	GRM31MR71H474KA01L	.47µF	50	10%			3000	
<b>Temperature Coeff: Y5V</b>								
81-GRM426Y334Z50D	GRM319F51H334ZA01D	.33µF	50	+80,-20			4000	
81-GRM426Y474Z50L	GRM31MF51H474ZA01L	.47µF	50	+80,-20			3000	
<b>Temperature Coeff: Z5U</b>								
81-GRM319E41H224MA01	GRM319E41H224MA01L	.22µF	50	20%			3000	

### Style 1210

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price per Piece
					1	100		
<b>Temperature Coeff: X7R</b>								
81-GRM422X104K50L	GRM32MR71H104KA01L	.1µF	50	10%			3000	
81-GRM422X104K100L	GRM32NR72A104KA01L	.1µF	100	10%			2000	
81-GRM422X224K0								