

# MURATA Capacitor Arrays and Hi-Q Chip Capacitors



RoHS Compliant This product is RoHS compliant.

## MURATA GNM SERIES CAPACITOR ARRAYS

### Specifications:

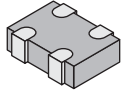
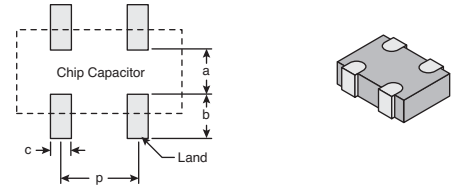
- Temperature Range: X7R -55°C to +125°C
- Lower Cost Supply Chain Management
- X5R -55°C to +85°C
- Compact PCB Design
- Insulation Resistance: More than 10,000 MΩ
- Lower Manufacturing/Operating Costs



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### 2 Capacitor Arrays

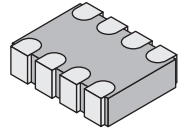
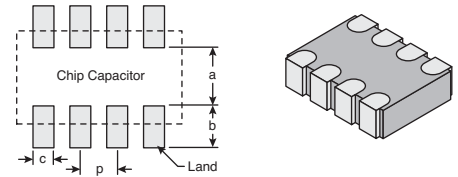
MOUSER STOCK NO.	Murata Part Number	Temp. Coef.	Volt	Value	Price Each				
					1	50	100	500	1000
<b>2 Capacitor Array 0504 Case</b>									
81-GNM1M2R71H102MA01	GNM1M2R71H102MA01D	X7R	50	1000pF	.05	.048	.046	.04	.034
81-GNM1M2R71E222MA01	GNM1M2R71E222MA01D	X7R	25	2200pF	.05	.048	.046	.04	.034
81-GNM1M2R71E472MA01	GNM1M2R71E472MA01D	X7R	25	4700pF	.05	.048	.046	.04	.034
81-GNM1M2R71E103MA01	GNM1M2R71E103MA01D	X7R	25	.01μF	.05	.048	.046	.04	.034
81-GNM1M2R71C223MA01D	GNM1M2R71C223MA01D	X7R	16	.022μF	.06	.05	.047	.043	.037
81-GNM1M2R71C473MA01D	GNM1M2R71C473MA01D	X7R	16	.047μF	.06	.05	.045	.041	.035
81-GNM1M2R61A104MA01D	GNM1M2R61A104MA01D	X5R	10	0.1μF	.10	.056	.053	.044	.038
81-GNM1M2R60J105ME2D	GNM1M2R60J105ME12D	X5R	6.3	1.0μF	.14	.048	.039	.035	.032
81-GNM1M2R61A105ME4D	GNM1M2R61A105ME14D	X5R	10	1.0μF	.12	.11	.10	.089	.076
<b>2 Capacitor Array 0805 Case</b>									
81-GNM212R61A105MA13	GNM212R61A105MA13D	X5R	10	1.0μF	.10	.09	.086	.071	.061
81-GNM212R61C105MA16	GNM212R61C105MA16D	X5R	16	1.0μF	.10	.095	.09	.075	.064
81-GNM212R61A225ME16	GNM212R61A225ME16D	X5R	10	2.2μF	.22	.17	.15	.14	.12



Part Number	Dimensions: mm					
	L	W	a	b	c	p
GNM1M2	1.37	1.0	0.45 to 0.5	0.5 to 0.55	0.3 to 0.35	0.64±0.1
GNM212	2.0	1.25	0.6 to 0.7	0.5 to 0.7	0.4 to 0.5	1.0 ±0.1

### 4 Capacitor Arrays

MOUSER STOCK NO.	Murata Part Number	Temp. Coef.	Volt	Value	Price Each				
					1	50	100	500	1000
<b>4 Capacitor Array 0805 Case</b>									
81-GNM214R71H102MA01D	GNM214R71H102MA01D	X7R	50	1000pF	.09	.08	.078	.065	.056
81-GNM214R71E222MA01	GNM214R71E222MA01D	X7R	25	2200pF	.09	.08	.078	.07	.06
81-GNM214R71E472MA01	GNM214R71E472MA01D	X7R	25	4700pF	.09	.08	.078	.07	.06
81-GNM214R71E103MA01D	GNM214R71E103MA01D	X7R	25	.01μF	.09	.08	.078	.065	.056
81-GNM214R71C223MA01D	GNM214R71C223MA01D	X7R	16	.022μF	.10	.09	.081	.073	.063
81-GNM214R71C473MA01D	GNM214R71C473MA01D	X7R	16	.047μF	.09	.08	.078	.068	.058
81-GNM214R71C104MA1D	GNM214R71C104MA01D	X7R	16	0.1μF	.12	.10	.081	.074	.065
<b>4 Capacitor Array 1206 Case</b>									
81-GNM314R71C223KD01	GNM314R71C223KD01D	X7R	16	.022μF	.29	.22	.20	.18	.16
81-GNM314R71C473MA1D	GNM314R71C473MA01D	X7R	16	.047μF	.29	.22	.20	.16	.11

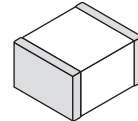


Part Number	Dimensions: mm					
	L	W	a	b	c	p
GNM214	2.0	1.25	0.6 to 0.7	0.5 to 0.7	0.25 to 0.35	0.6 ±0.05
GNM314	3.2	1.6	0.8 to 1.0	0.7 to 0.9	0.3 to 0.4	0.8 ±0.05

## MURATA MA SERIES HI-Q CHIP CAPACITORS

### Specifications:

- Temperature Range: -55°C to +125°C
- Terminations: Palladium Silver covered by a Nickel Interface and coated with Tin Plating.
- Impervious to environmental conditions.
- Low noise.
- Very High Q at high frequencies.
- High RF Power capabilities.
- Stacked tape and reel also available in bulk package



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MOUSER STOCK NO.	Murata Part Number	Case Size	Volt	Value (pF)	Tolerance	Price Each			
						1	10	50	100
81-MA191R0CAN	MA191R0CAN	0505	150	1.0	±.25pF	1.99	1.09	.89	.85
81-MA191R5CAN	MA191R5CAN	0505	150	1.5	±.25pF	1.99	1.09	.89	.88
81-MA192R2CAN	MA192R2CAN	0505	150	2.2	±.25pF	1.99	1.09	.89	.67
81-MA193R3CAN	MA193R3CAN	0505	150	3.3	±.25pF	1.99	1.09	.89	.67
81-MA194R7CAN	MA194R7CAN	0505	150	4.7	±.25pF	1.99	1.09	.89	.67
81-MA195R1CAN	MA195R1CAN	0505	150	5.1	±.25pF	1.99	1.09	.89	.85
81-MA198R2JAN	MA198R2JAN	0505	150	8.2	±5%	2.05	1.15	.99	.75
81-MA19100JAN	MA19100JAN	0505	150	10	±5%	2.05	1.15	.99	.88
81-MA19150JAN	MA19150JAN	0505	150	15	±5%	2.05	1.15	.99	.88
81-MA19220JAN	MA19220JAN	0505	150	22	±5%	2.05	1.15	.99	.95
81-MA19330JAN	MA19330JAN	0505	150	33	±5%	2.05	1.15	.99	.95
81-MA19470JAN	MA19470JAN	0505	150	47	±5%	2.05	1.15	.99	.88
81-MA19510JAN	MA19510JAN	0505	150	51	±5%	2.05	1.15	.99	.88
81-MA19680JAN	MA19680JAN	0505	150	68	±5%	2.05	1.15	.99	.88
81-MA19820JAN	MA19820JAN	0505	150	82	±5%	2.12	1.20	1.05	.99
81-MA19101JAN	MA19101JAN	0505	150	100	±5%	2.25	1.25	1.09	.85
81-MA29681JAN	MA29681JAN	1111	50	680	±5%	2.42	1.99	1.54	1.25
81-MA29821JAN	MA29821JAN	1111	50	820	±5%	2.42	1.99	1.54	1.25
81-MA29102JAN	MA29102JAN	1111	50	1000	±5%	2.99	1.99	1.75	1.49
81-MA29511JAN	MA29511JAN	1111	100	510	±5%	2.99	1.99	1.54	1.25
81-MA29621JAN	MA29621JAN	1111	100	620	±5%	2.99	1.99	1.54	1.25
81-MA291R0CAN	MA291R0CAN	1111	500	1.0	±.25pF	2.32	1.29	1.15	.90
81-MA291R5CAN	MA291R5CAN	1111	500	1.5	±.25pF	2.32	1.29	1.15	.90
81-MA292R2CAN	MA292R2CAN	1111	500	2.2	±.25pF	2.32	1.29	1.15	.90
81-MA293R3CAN	MA293R3CAN	1111	500	3.3	±.25pF	2.32	1.29	1.15	.90
81-MA294R7CAN	MA294R7CAN	1111	500	4.7	±.25pF	2.32	1.29	1.15	.90
81-MA295R1CAN	MA295R1CAN	1111	500	5.1	±.25pF	2.32	1.29	1.15	.90
81-MA296R8CAN	MA296R8CAN	1111	500	6.8	±.25pF	2.32	1.29	1.15	.90
81-MA298R2CAN	MA298R2CAN	1111	500	8.2	±.25pF	2.32	1.29	1.15	.90
81-MA29100JAN	MA29100JAN	1111	500	10	±5%	2.32	1.29	1.15	.90
81-MA29150JAN	MA29150JAN	1111	500	15	±5%	2.49	1.33	1.19	.95
81-MA29220JAN	MA29220JAN	1111	500	22	±5%	2.49	1.33	1.19	.95
81-MA29330JAN	MA29330JAN	1111	500	33	±5%	2.49	1.33	1.19	.95
81-MA29470JAN	MA29470JAN	1111	500	47	±5%	2.49	1.33	1.19	.95
81-MA29510JAN	MA29510JAN	1111	500	51	±5%	2.49	1.33	1.19	.95
81-MA29680JAN	MA29680JAN	1111	500	68	±5%	2.49	1.33	1.19	.95
81-MA29820JAN	MA29820JAN	1111	500	82	±5%	2.49	1.33	1.19	.95
81-MA29101JAN	MA29101JAN	1111	500	100	±5%	2.49	1.33	1.19	.95

