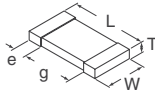




Monolithic Ceramic Chip Capacitors – GJM Series

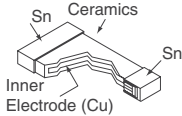


Size Code	Dimensions – mm			
	L	W	e	g (min.)
0201	0.6±0.03	0.3±0.03	0.1 – 0.2	0.2
0402	1.0±0.05	0.5±0.05	0.15 – 0.3	0.4



The Murata GJM Series is a high Q, ultra small capacitor series for high frequency applications in the 500MHz – 10GHz range, suitable for VCO and PA Module applications. The GJM Series of capacitors are made with copper electrodes for low ESR and low power consumption due to the high Q (low loss) performance. This series is offered in EIA sizes 0201 and 0402.

Features: • Better Q and low ESR at VHF, UHF and microwave frequencies • Copper inner electrode • Low power consumption, yield ratio improvement due to the better Q or lower ESR • VCO or PA module applications: **Operating Temperature Range:** • COG (NPO): -55°C – 125°C



Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing		Murata Part No.		
							10	100	500		Qty.	Pricing			
0201	COG (NPO)	25	.75pF	±25pF	0.3	490-3052-1-ND	.73	4.32	12.46	490-3052-2-ND	15,000	12.02/M	GJM0335C1E1R75CB01D		
		25	1.0pF	±25pF	0.3	490-3053-1-ND	.70	4.12	11.86	490-3053-2-ND	15,000	11.22/M	GJM0335C1E1R0CB01D		
		25	1.1pF	±25pF	0.3	490-3054-1-ND	.70	4.12	11.86	490-3054-2-ND	15,000	11.22/M	GJM0335C1E1R1CB01D		
		25	1.2pF	±25pF	0.3	490-3055-1-ND	.70	4.12	11.86	490-3055-2-ND	15,000	11.22/M	GJM0335C1E1R2CB01D		
		25	1.3pF	±25pF	0.3	490-3056-1-ND	.70	4.12	11.86	490-3056-2-ND	15,000	11.22/M	GJM0335C1E1R3CB01D		
		25	1.5pF	±25pF	0.3	490-3057-1-ND	.70	4.12	11.86	490-3057-2-ND	15,000	11.22/M	GJM0335C1E1R5CB01D		
		25	1.6pF	±25pF	0.3	490-3058-1-ND	.70	4.12	11.86	490-3058-2-ND	15,000	11.22/M	GJM0335C1E1R6CB01D		
		25	1.8pF	±25pF	0.3	490-3059-1-ND	.70	4.12	11.86	490-3059-2-ND	15,000	11.22/M	GJM0335C1E1R8CB01D		
		25	2.0pF	±25pF	0.3	490-3060-1-ND	.70	4.12	11.86	490-3060-2-ND	15,000	11.22/M	GJM0335C1E2R0CB01D		
		25	2.2pF	±25pF	0.3	490-3061-1-ND	.70	4.12	11.86	490-3061-2-ND	15,000	11.22/M	GJM0335C1E2R2CB01D		
		25	2.4pF	±25pF	0.3	490-3062-1-ND	.70	4.12	11.86	490-3062-2-ND	15,000	11.22/M	GJM0335C1E2R4CB01D		
		25	2.7pF	±25pF	0.3	490-3063-1-ND	.70	4.12	11.86	490-3063-2-ND	15,000	11.22/M	GJM0335C1E2R7CB01D		
		25	3.0pF	±25pF	0.3	490-3064-1-ND	.70	4.12	11.86	490-3064-2-ND	15,000	11.22/M	GJM0335C1E3R0CB01D		
		25	3.3pF	±25pF	0.3	490-3065-1-ND	.70	4.12	11.86	490-3065-2-ND	15,000	11.22/M	GJM0335C1E3R3CB01D		
		25	3.6pF	±25pF	0.3	490-3066-1-ND	.70	4.12	11.86	490-3066-2-ND	15,000	11.22/M	GJM0335C1E3R6CB01D		
		25	3.9pF	±25pF	0.3	490-3067-1-ND	.70	4.12	11.86	490-3067-2-ND	15,000	11.22/M	GJM0335C1E3R9CB01D		
		25	4.0pF	±25pF	0.3	490-3068-1-ND	.70	4.12	11.86	490-3068-2-ND	15,000	11.22/M	GJM0335C1E4R0CB01D		
		25	4.3pF	±25pF	0.3	490-3069-1-ND	.70	4.12	11.86	490-3069-2-ND	15,000	11.22/M	GJM0335C1E4R3CB01D		
		25	4.7pF	±25pF	0.3	490-3070-1-ND	.70	4.12	11.86	490-3070-2-ND	15,000	11.22/M	GJM0335C1E4R7CB01D		
		25	5.0pF	±25pF	0.3	490-3071-1-ND	.70	4.12	11.86	490-3071-2-ND	15,000	11.22/M	GJM0335C1E5R0CB01D		
		25	5.1pF	±25pF	0.3	490-3072-1-ND	.70	4.12	11.86	490-3072-2-ND	15,000	11.22/M	GJM0335C1E5R1CB01D		
		25	5.6pF	±25pF	0.3	490-3073-1-ND	.70	4.12	11.86	490-3073-2-ND	15,000	11.22/M	GJM0335C1E5R6CB01D		
		25	6.0pF	±25pF	0.3	490-3074-1-ND	.70	4.12	11.86	490-3074-2-ND	15,000	11.22/M	GJM0335C1E6R0CB01D		
		25	6.8pF	±25pF	0.3	490-3076-1-ND	.70	4.12	11.86	490-3076-2-ND	15,000	11.22/M	GJM0335C1E6R8CB01D		
		0402	COG (NPO)	50	1.0pF	±25pF	0.5	490-3083-1-ND	.55	3.28	9.46	490-3083-2-ND	10,000	8.81/M	GJM1555C1H1R0CB01D
				50	1.1pF	±25pF	0.5	490-3084-1-ND	.50	2.91	8.41	490-3084-2-ND	10,000	8.01/M	GJM1555C1H1R1CB01D
				50	1.2pF	±25pF	0.5	490-3085-1-ND	.50	2.91	8.41	490-3085-2-ND	10,000	8.01/M	GJM1555C1H1R2CB01D
				50	1.3pF	±25pF	0.5	490-3086-1-ND	.50	2.91	8.41	490-3086-2-ND	10,000	8.01/M	GJM1555C1H1R3CB01D
				50	1.5pF	±25pF	0.5	490-3087-1-ND	.55	3.28	9.46	490-3087-2-ND	10,000	8.81/M	GJM1555C1H1R5CB01D
				50	1.6pF	±25pF	0.5	490-3088-1-ND	.50	2.91	8.41	490-3088-2-ND	10,000	8.01/M	GJM1555C1H1R6CB01D
50	1.8pF			±25pF	0.5	490-3089-1-ND	.55	3.28	9.46	490-3089-2-ND	10,000	8.81/M	GJM1555C1H1R8CB01D		
50	2.0pF			±25pF	0.5	490-3090-1-ND	.55	3.28	9.46	490-3090-2-ND	10,000	8.81/M	GJM1555C1H2R0CB01D		
50	2.2pF			±25pF	0.5	490-3091-1-ND	.50	2.91	8.41	490-3091-2-ND	10,000	8.01/M	GJM1555C1H2R2CB01D		
50	2.4pF			±25pF	0.5	490-3092-1-ND	.55	3.28	9.46	490-3092-2-ND	10,000	8.81/M	GJM1555C1H2R4CB01D		
50	2.7pF			±25pF	0.5	490-3093-1-ND	.50	2.91	8.41	490-3093-2-ND	10,000	8.01/M	GJM1555C1H2R7CB01D		
50	3.0pF			±25pF	0.5	490-3094-1-ND	.50	2.91	8.41	490-3094-2-ND	10,000	8.01/M	GJM1555C1H3R0CB01D		
50	3.3pF			±25pF	0.5	490-3095-1-ND	.46	2.76	7.96	490-3095-2-ND	10,000	8.01/M	GJM1555C1H3R3CB01D		
50	3.6pF			±25pF	0.5	490-3096-1-ND	.55	3.28	9.46	490-3096-2-ND	10,000	8.81/M	GJM1555C1H3R6CB01D		
50	3.9pF			±25pF	0.5	490-3097-1-ND	.46	2.76	7.96	490-3097-2-ND	10,000	8.01/M	GJM1555C1H3R9CB01D		
50	4.0pF			±25pF	0.5	490-3098-1-ND	.50	2.91	8.41	490-3098-2-ND	10,000	8.01/M	GJM1555C1H4R0CB01D		
50	4.3pF			±25pF	0.5	490-3099-1-ND	.50	2.91	8.41	490-3099-2-ND	10,000	8.01/M	GJM1555C1H4R3CB01D		
50	4.7pF			±25pF	0.5	490-3100-1-ND	.55	3.28	9.46	490-3100-2-ND	10,000	8.81/M	GJM1555C1H4R7CB01D		
50	5.0pF			±25pF	0.5	490-3101-1-ND	.50	2.91	8.41	490-3101-2-ND	10,000	8.01/M	GJM1555C1H5R0CB01D		
50	5.1pF			±25pF	0.5	490-3102-1-ND	.55	3.28	9.46	490-3102-2-ND	10,000	8.81/M	GJM1555C1H5R1CB01D		
50	5.6pF			±25pF	0.5	490-3103-1-ND	.55	3.28	9.46	490-3103-2-ND	10,000	8.81/M	GJM1555C1H5R6CB01D		
50	6.0pF			±25pF	0.5	490-3104-1-ND	.55	3.28	9.46	490-3104-2-ND	10,000	8.81/M	GJM1555C1H6R0CB01D		
50	6.2pF			±25pF	0.5	490-3105-1-ND	.55	3.28	9.46	490-3105-2-ND	10,000	8.81/M	GJM1555C1H6R2CB01D		
50	6.8pF			±25pF	0.5	490-3106-1-ND	.55	3.28	9.46	490-3106-2-ND	10,000	8.81/M	GJM1555C1H6R8CB01D		
50	7.0pF			±25pF	0.5	490-3107-1-ND	.55	3.28	9.46	490-3107-2-ND	10,000	8.81/M	GJM1555C1H7R0CB01D		
50	7.5pF			±25pF	0.5	490-3108-1-ND	.55	3.28	9.46	490-3108-2-ND	10,000	8.81/M	GJM1555C1H7R5CB01D		
50	9.0pF			±25pF	0.5	490-3111-1-ND	.55	3.28	9.46	490-3111-2-ND	10,000	8.81/M	GJM1555C1H9R0CB01D		
50	9.1pF			±25pF	0.5	490-3112-1-ND	.55	3.28	9.46	490-3112-2-ND	10,000	8.81/M	GJM1555C1H9R1CB01D		
50	12pF			±5%	0.5	490-3115-1-ND	.46	2.76	7.96	490-3115-2-ND	10,000	8.01/M	GJM1555C1H120JB01D		
50	15pF			±5%	0.5	490-3117-1-ND	.46	2.76	7.96	490-3117-2-ND	10,000	8.01/M	GJM1555C1H150JB01D		
50	18pF	±5%	0.5	490-3119-1-ND	.50	2.91	8.41	490-3119-2-ND	10,000	8.01/M	GJM1555C1H180JB01D				

F

Multilayer Ceramic Chip Capacitor Arrays – GNM Series

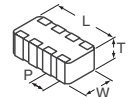


Murata's capacitor array offering (GNM Series) includes the following benefits: • Placement cost savings (one placement cycle instead of four or two) • High density mounting due to real estate savings • Capacitor arrays offered in two or four capacitor components

Features: • High density mounting due to mounting space saving • Mounting cost saving
Applications: • General electronic equipment • Cellular phones, pagers, camcorders, personal computers, LCD

Operating Temperature Range: • X7R: -55°C – 125°C • X5R: -55°C – 85°C

Size Code	Dimensions – mm		
	L	W	P
0504	1.37±0.15	1.0±0.15	0.64±0.05
0805	2.0±0.15	1.250±0.15	1.0±0.1 (2-element) 0.5±0.05 (4-element)
1206	3.2±0.15	1.6±0.15	0.8±0.1



Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing		Murata Part No.
							10	100	500		Qty.	Pricing	
2-Elements													
0504	X7R	25	2200pF	±20%	0.6	490-3399-1-ND	.49	4.20	17.52	490-3399-2-ND	4,000	20.02/M	GNM1M2R71E222MA01D
	X7R	25	4700pF	±20%	0.6	490-3400-1-ND	.49	4.20	17.52	490-3400-2-ND	4,000	20.02/M	GNM1M2R71E472MA01D
	X7R	25	10000pF	±20%	0.6	490-3401-1-ND	.46	3.99	16.62	490-3401-2-ND	4,000	18.42/M	GNM1M2R71E103MA01D
	X7R	16	2200pF	±20%	0.6	490-3402-1-ND	.50	4.23	17.62	490-3402-2-ND	4,000	20.02/M	GNM1M2R71C223MA01D
	X7R	16	4700pF	±20%	0.6	490-3403-1-ND	.52	4.47	18.62	490-3403-2-ND	4,000	20.82/M	GNM1M2R71C473MA01D
	X5R	10	1.0pF	±20%	0.6	490-3404-1-ND	.51	4.40	18.32	490-3404-2-ND	4,000	20.82/M	GNM1M2R61A104MA01D
0805	X5R	10	1.0pF	±20%	0.8	490-3405-1-ND	.53	4.54	18.92	490-3405-2-ND	4,000	20.82/M	GNM1M2R61A105ME14D
	X5R	6.3	1.0pF	±20%	0.8	490-3406-1-ND	.53	4.54	18.92	490-3406-2-ND	4,000	20.82/M	GNM1M2R60J105ME12D
	X5R	16	1.0pF	±20%	0.85	490-3414-1-ND	.91	7.81	32.54	490-3414-2-ND	4,000	36.84/M	GNM212R61C105MA16D
X5R	10	1.0pF	±20%	0.85	490-3413-1-ND	.86	7.38	30.73	490-3413-2-ND	4,000	34.44/M	GNM212R61A105MA13D	
4-Elements													
0805	X7R	50	1000pF										