

KEMET Multilayer Ceramic Chip Capacitors



KEMET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitors manufacture. The process features a high degree of mechanization as well as precise controls over raw materials and process conditions. Manufacturing is supplemented by extensive technology, engineering and quality assurance programs.

Features:

- COG (NP0), X5R, X7R, Z5U, and Y5V Dielectrics
- 10, 16, 25, 50, 100 and 200 Volts
- Termination: Tin-plate over nickel barrier
- Available capacitance tolerances: ±0.10 pF; ±0.25 pF; ±0.5pF; ±1%; ±2%; ±10%; ±20%; and ±80%-20%

Application Note:

- A higher voltage capacitor may be used in a lower voltage application



RoHS Compliant

Temperature Characteristics:

- COG 0± 30ppm/°C from -55°C to +125°C
- XR7 ± 15% from -55°C to +125°C

DIMENSIONS: mm (in.)

Style	L	W	T	B	S
0201	0.6 (.02)±0.03 (.001)	0.3 (.012)±0.03 (.001)	0.3 (.012)	.15 (.006)±.05 (.002)	—
0402	1.0 (.04)±0.05 (.002)	0.5 (.02)±0.05 (.002)	0.55 (.022)	.20 (.008)±0.40 (.016)	0.3 (.012)

CASE SIZE 0201

For quantities of 50,000 and up, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt (DC)	Tol.± %	Price Each		7" Reel Qty.	Price Per Piece
					1	100		
Temperature Coefficient: C0G								
80-C0201C100D3G	C0201C100D3GACTU	10	25	.5%			15000	
80-C0201C120J3G	C0201C120J3GACTU	12	25	5%			15000	
80-C0201C150J3G	C0201C150J3GACTU	15	25	5%			15000	
80-C0201C180J3G	C0201C180J3GACTU	18	25	5%			15000	
80-C0201C220J3G	C0201C220J3GACTU	22	25	5%			15000	
80-C0201C270J3G	C0201C270J3GACTU	27	25	5%			15000	
80-C0201C330J3G	C0201C330J3GACTU	33	25	5%			15000	
80-C0201C390J3G	C0201C390J3GACTU	39	25	5%			15000	
80-C0201C470J3G	C0201C470J3GACTU	47	25	5%			15000	
80-C0201C560J3G	C0201C560J3GACTU	56	25	5%			15000	
80-C0201C680J3G	C0201C680J3GACTU	68	25	5%			15000	
80-C0201C820J3G	C0201C820J3GACTU	82	25	5%			15000	
80-C0201C101J3G	C0201C101J3GACTU	100	25	5%			15000	
Temperature Coefficient: X5R								
80-C0201C103K4P	C0201C103K4PACTU	.01µF	16	10%			15000	
80-C0201C104K9P	C0201C104K9PACTU	.10µF	6.3	10%			15000	

CASE SIZE 0402

For quantities of 50,000 and up, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt (DC)	Tol.± %	Price Each		7" Reel Qty.	Price Per Piece
					1	100		
Temperature Coefficient: C0G								
80-C0402C508C5G	C0402C508C5GACTU	0.5	50	.25pF			10,000	
80-C0402C109C5G	C0402C109C5GACTU	1	50	.25pF			10,000	
80-C0402C129C5G	C0402C129C5GACTU	1.2	50	.25pF			10,000	
80-C0402C159C5G	C0402C159C5GACTU	1.5	50	.25pF			10,000	
80-C0402C189C5G	C0402C189C5GACTU	1.8	50	.25pF			10,000	
80-C0402C209C5G	C0402C209C5GACTU	2	50	.25pF			10,000	
80-C0402C229C5G	C0402C229C5GACTU	2.2	50	.25pF			10,000	
80-C0402C279C5G	C0402C279C5GACTU	2.7	50	.25pF			10,000	
80-C0402C309C5G	C0402C309C5GACTU	3	50	.25pF			10,000	
80-C0402C339C5G	C0402C339C5GACTU	3.3	50	.25pF			10,000	
80-C0402C369C5G	C0402C369C5GACTU	3.6	50	.25pF			10,000	
80-C0402C399C5G	C0402C399C5GACTU	3.9	50	.25pF			10,000	
80-C0402C479C3G	C0402C479C3GACTU	4.7	25	.25pF			10,000	
80-C0402C479D5G	C0402C479D5GACTU	4.7	50	.5pF			10,000	
80-C0402C479C5G	C0402C479C5GACTU	4.7	50	.25pF			10,000	
80-C0402C519C5G	C0402C519C5GACTU	5.1	50	.25pF			10,000	
80-C0402C569C5G	C0402C569C5GACTU	5.6	50	.25pF			10,000	
80-C0402C569D5G	C0402C569D5GACTU	5.6	50	.5pF			10,000	
80-C0402C689D5G	C0402C689D5GACTU	6.8	50	.5pF			10,000	
80-C0402C689C5G	C0402C689C5GACTU	6.8	50	.25pF			10,000	
80-C0402C829C5G	C0402C829C5GACTU	8.2	50	.25pF			10,000	
80-C0402C829D5G	C0402C829D5GACTU	8.2	50	.5pF			10,000	
80-C0402C919D5G	C0402C919D5GACTU	9.1	50	.5pF			10,000	
80-C0402C100C5G	C0402C100C5GACTU	10	50	.25pF			10,000	
80-C0402C100D5G	C0402C100D5GACTU	10	50	.5pF			10,000	
80-C0402C100J5G	C0402C100J5GACTU	10	50	5%			10,000	
80-C0402C110J5G	C0402C110J5GACTU	11	50	5%			10,000	
80-C0402C120C5G	C0402C120C5GACTU	12	50	.25pF			10,000	
80-C0402C120J5G	C0402C120J5GACTU	12	50	5%			10,000	
80-C0402C150C5G	C0402C150C5GACTU	15	50	.25pF			10,000	
80-C0402C150J5G	C0402C150J5GACTU	15	50	5%			10,000	
80-C0402C180J5G	C0402C180J5GACTU	18	50	5%			10,000	
80-C0402C200J5G	C0402C200J5GACTU	20	50	5%			10,000	
80-C0402C220J3G	C0402C220J3GACTU	22	25	5%			10,000	
80-C0402C220C5G	C0402C220C5GACTU	22	50	.25pF			10,000	
80-C0402C220J5G	C0402C220J5GACTU	22	50	5%			10,000	
80-C0402C240J5G	C0402C240J5GACTU	24	50	5%			10,000	
80-C0402C270J5G	C0402C270J5GACTU	27	50	5%			10,000	
80-C0402C330J3G	C0402C330J3GACTU	33	25	5%			10,000	
80-C0402C330J5G	C0402C330J5GACTU	33	50	5%			10,000	
80-C0402C360J5G	C0402C360J5GACTU	36	50	5%			10,000	
80-C0402C390J5G	C0402C390J5GACTU	39	50	5%			10,000	
80-C0402C470J3G	C0402C470J3GACTU	47	25	5%			10,000	
80-C0402C470D5G	C0402C470D5GACTU	47	50	.5pF			10,000	
80-C0402C470J5G	C0402C470J5GACTU	47	50	5%			10,000	
80-C0402C560J5G	C0402C560J5GACTU	56	50	5%			10,000	
80-C0402C680J5G	C0402C680J5GACTU	68	50	5%			10,000	
80-C0402C750J5G	C0402C750J5GACTU	75	50	5%			10,000	
80-C0402C820G3G	C0402C820G3GACTU	82	25	2%			10,000	
80-C0402C820J3G	C0402C820J3GACTU	82	25	5%			10,000	

CASE SIZE 0402 (CONT.)

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MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt (DC)	Tol.± %	Price Each		7" Reel Qty.	Price Per Piece
					1	100		
Temperature Coefficient: C0G (Cont.)								
80-C0402C820J5G	C0402C820J5GACTU	82	50	5%			10,000	
80-C0402C910J5G	C0402C910J5GACTU	91	50	5%			10,000	
80-C0402C101K3G	C0402C101K3GACTU	100	25	10%			10,000	
80-C0402C101J5G	C0402C101J5GACTU	100	50	5%			10,000	
Temperature Coefficient: X7R								
80-C0402C123K8R	C0402C123K8RACTU	.012µF	10	10%			10,000	
80-C0402C123K4R	C0402C123K4RACTU	.012µF	16	10%			10,000	
80-C0402C153K4R	C0402C153K4RACTU	.015µF	10	10%			10,000	
80-C0402C153K8R	C0402C153K8RACTU	.015µF	16	10%			10,000	
80-C0402C183K8R	C0402C183K8RACTU	.018µF	10	10%			10,000	
80-C0402C183K4R	C0402C183K4RACTU	.018µF	16	10%			10,000	
80-C0402C223K8R	C0402C223K8RACTU	.022µF	10	10%			10,000	
80-C0402C223K4R	C0402C223K4RACTU	.022µF	16	10%			10,000	
80-C0402C273K9R	C0402C273K9RACTU	.027µF	6.3	10%			10,000	
80-C0402C273K8R	C0402C273K8RACTU	.027µF	10	10%			10,000	
80-C0402C273K4R	C0402C273K4RACTU	.027µF	16	10%			10,000	
80-C0402C333K8R	C0402C333K8RACTU	.033µF	10	10%			10,000	
80-C0402C333K4R	C0402C333K4RACTU	.033µF	16	10%			10,000	
80-C0402C393K8R	C0402C393K8RACTU	.039µF	10	10%			10,000	
80-C0402C393K4R	C0402C393K4RACTU	.039µF	16	10%			10,000	
80-C0402C473K8R	C0402C473K8RACTU	.047µF	10	10%			10,000	
80-C0402C473K4R	C0402C473K4RACTU	.047µF	16	10%			10,000	
80-C0402C563K8R	C0402C563K8RACTU	.056µF	10	10%			10,000	
80-C0402C563K4R	C0402C563K4RACTU	.056µF	16	10%			10,000	
80-C0402C683K8R	C0402C683K8RACTU	.068µF	10	10%			10,000	
80-C0402C683K4R	C0402C683K4RACTU	.068µF	16	10%			10,000	
80-C0402C823K8R	C0402C823K8RACTU	.082µF	10	10%			10,000	
80-C0402C823K4R	C0402C823K4RACTU	.082µF	16	10%			10,000	
80-C0402C104K8R	C0402C104K8RACTU	0.1µF	10	10%			10,000	
80-C0402C104K4R	C0402C104K4RACTU	0.1µF	16	10%			10,000	
80-C0402C151J5R	C0402C151J5RACTU	150	50	5%			10,000	
80-C0402C151K5R	C0402C151K5RACTU	150	50	10%			10,000	
80-C0402C151J3R	C0402C151J3RACTU	150	25	5%			10,000	
80-C0402C181K5R	C0402C181K5RACTU	180	50	10%			10,000	
80-C0402C221J5R	C0402C221J5RACTU	220	50	5%			10,000	
80-C0402C221K5R	C0402C221K5RACTU	220	50	10%			10,000	
80-C0402C271J5R	C0402C271J5RACTU	270	50	5%			10,000	
80-C0402C271K5R	C0402C271K5RACTU	270	50	10%			10,000	
80-C0402C331J5R	C0402C331J5RACTU	330	50	5%			10,000	
80-C0402C331K5R	C0402C331K							