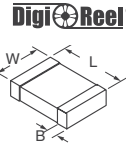




Multilayer Ceramic Chip Capacitors



Size Code (EIA)	Dimensions - mm		
	L	W	B
0402	1.0 ±0.05	0.5 ±0.05	0.20-0.40
0603	1.6 ±0.15	0.8 ±0.15	0.35 ±0.15
0805	2.0 ±0.2	1.25 (≥250V: 1.2) ±0.2	0.5 ±0.25
1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.25
1210	3.2 ±0.2	2.5 ±0.2	0.5 ±0.25
1808	4.5 ±0.3	2.0 ±0.2	0.6 ±0.35
1812	4.5 ±0.3	3.2 ±0.3	0.6 ±0.35
1825	4.5 ±0.3	6.4 ±0.4	0.6 ±0.35
2220	5.6 ±0.4	5.0 ±0.4	0.6 ±0.35
2225	5.6 ±0.4	6.3 (≥250V: 6.4) ±0.4	0.6 ±0.35

KEMET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitor manufacturing. 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. Standard end terminations use a nickel barrier layer and a tin overplate to provide excellent solderability. The 250VDC or Tip & Ring MLCC capacitors are designed and rated for telecommunication ring circuits where the capacitor is used to block -48 ~ -52VDC of line voltage and pass a 16 ~ 25Hz AC signal pulse of 70 ~ 90Vrms. KEMET's open end ceramic surface mount capacitor is designed to significantly minimize the probability of a low IR or short circuit condition when forced to failure in a board flex situation. This reduces the potential for causing catastrophic failures.

Please Note: For additional dimensions see data sheet.

WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing		Kemet Part No.
				10	100	
Case Size 0402 COG (NPO) Type						
50	.5pF	±0.25pF	399-1000-1-ND	3.11	16.26	0402C50805GACTU
50	1.2pF	±0.25pF	399-1001-1-ND	1.11	3.96	0402C12905GACTU
50	1.5pF	±0.25pF	399-1002-1-ND	1.11	3.96	0402C15905GACTU
50	1.8pF	±0.25pF	399-1003-1-ND	1.11	3.96	0402C18905GACTU
50	2pF	±0.25pF	399-1004-1-ND	3.28	17.13	0402C20905GACTU
50	2.7pF	±0.25pF	399-1005-1-ND	1.11	3.96	0402C27905GACTU
50	3pF	±0.25pF	399-1006-1-ND	3.28	17.13	0402C30905GACTU
50	3.3pF	±0.25pF	399-1007-1-ND	1.11	3.96	0402C33905GACTU
50	5.6pF	±0.5pF	399-1008-1-ND	2.73	14.28	0402C56905GACTU
50	8.2pF	±0.5pF	399-1009-1-ND	2.73	14.28	0402C82905GACTU
50	9.1pF	±0.5pF	399-1010-1-ND	3.28	17.13	0402C91905GACTU
50	10pF	±5%	399-1011-1-ND	.44	1.59	0402C100J5GACTU
50	11pF	±5%	399-1012-1-ND	2.79	16.82	0402C110J5GACTU
50	12pF	±5%	399-1013-1-ND	.96	3.46	0402C120J5GACTU
50	15pF	±5%	399-1014-1-ND	.44	1.59	0402C150J5GACTU
50	22pF	±5%	399-1015-1-ND	.44	1.59	0402C220J5GACTU
50	27pF	±5%	399-1016-1-ND	.44	1.59	0402C270J5GACTU
50	33pF	±5%	399-1017-1-ND	.44	1.59	0402C330J5GACTU
50	39pF	±5%	399-1018-1-ND	.44	1.59	0402C390J5GACTU
50	47pF	±5%	399-1019-1-ND	.44	1.59	0402C470J5GACTU
50	56pF	±5%	399-1020-1-ND	.44	1.59	0402C560J5GACTU
50	75pF	±5%	399-3191-1-ND	2.79	16.82	0402C750J5GACTU
50	82pF	±5%	399-3192-1-ND	3.08	16.12	0402C820J5GACTU
50	91pF	±5%	399-3193-1-ND	2.79	16.82	0402C910J5GACTU
50	100pF	±5%	399-3194-1-ND	.44	1.59	0402C100J5GACTU
25	82pF	±5%	399-1021-1-ND	3.08	16.12	0402C820J3GACTU
25	100pF	±5%	399-1022-1-ND	.44	1.59	0402C100J3GACTU
X7R Type						
50	220pF	±10%	399-1030-1-ND	.48	1.73	0402C221K5RACTU
50	330pF	±10%	399-1023-1-ND	3.26	17.04	0402C331K5RACTU
50	470pF	±10%	399-1025-1-ND	.38	1.37	0402C471K5RACTU
50	560pF	±10%	399-1026-1-ND	1.32	4.76	0402C561K5RACTU
50	680pF	±10%	399-1027-1-ND	.50	1.80	0402C681K5RACTU
50	1000pF	±10%	399-1032-1-ND	.32	1.15	0402C102K5RACTU
50	1200pF	±10%	399-1028-1-ND	1.32	4.76	0402C122K5RACTU
50	1500pF	±10%	399-1029-1-ND	.60	2.16	0402C152K5RACTU
50	1800pF	±10%	399-3067-1-ND	3.26	17.04	0402C182K5RACTU
50	2200pF	±10%	399-3068-1-ND	.42	1.51	0402C222K5RACTU
50	2700pF	±10%	399-3069-1-ND	.70	2.52	0402C272K5RACTU
50	3300pF	±10%	399-3070-1-ND	.56	2.02	0402C332K5RACTU
50	3900pF	±10%	399-3071-1-ND	.54	1.95	0402C392K5RACTU
50	4700pF	±10%	399-3072-1-ND	.40	1.44	0402C472K5RACTU
50	5600pF	±10%	399-3073-1-ND	2.67	12.44	0402C562K5RACTU
50	6800pF	±10%	399-3074-1-ND	2.67	12.44	0402C682K5RACTU
50	8200pF	±10%	399-3075-1-ND	2.67	12.44	0402C822K5RACTU
50	10000pF	±10%	399-3066-1-ND	.44	1.59	0402C103K5RACTU
25	470pF	±10%	399-1024-1-ND	3.26	17.04	0402C471K3RACTU
25	1000pF	±10%	399-1031-1-ND	.36	1.30	0402C102K3RACTU
25	2200pF	±10%	399-1033-1-ND	1.15	4.11	0402C223K3RACTU
25	3900pF	±10%	399-1034-1-ND	1.00	3.60	0402C392K3RACTU
25	4700pF	±10%	399-1035-1-ND	4.2	15.1	0402C472K3RACTU
25	5600pF	±10%	399-1276-1-ND	.60	2.16	0402C562K3RACTU
25	8200pF	±10%	399-1277-1-ND	2.67	12.44	0402C822K3RACTU
25	10000pF	±5%	399-1279-1-ND	.60	2.16	0402C103J3RACTU
25	10000pF	±10%	399-1278-1-ND	.36	1.30	0402C103K3RACTU
16	5600pF	±10%	399-1036-1-ND	3.26	17.04	0402C562K4RACTU
16	8200pF	±10%	399-1037-1-ND	3.26	17.04	0402C822K4RACTU
16	10000pF	±5%	399-1039-1-ND	3.26	19.62	0402C103J4RACTU
16	10000pF	±10%	399-1038-1-ND	.32	1.15	0402C103K4RACTU
16	12000pF	±10%	399-4875-1-ND	.80	2.88	0402C123K4RACTU
16	15000pF	±10%	399-4878-1-ND	3.44	17.96	0402C153K4RACTU
16	18000pF	±10%	399-4881-1-ND	3.44	17.96	0402C183K4RACTU
16	22000pF	±10%	399-3518-1-ND	3.44	17.96	0402C223K4RACTU
16	27000pF	±10%	399-4888-1-ND	3.44	17.96	0402C273K4RACTU
16	33000pF	±10%	399-4891-1-ND	3.44	17.96	0402C333K4RACTU
16	39000pF	±10%	399-4894-1-ND	3.44	17.96	0402C393K4RACTU
16	47000pF	±10%	399-3519-1-ND	3.44	17.96	0402C473K4RACTU
16	56000pF	±10%	399-4901-1-ND	3.44	17.96	0402C563K4RACTU
16	68000pF	±10%	399-4904-1-ND	3.44	17.96	0402C683K4RACTU
16	82000pF	±10%	399-4907-1-ND	3.44	17.96	0402C823K4RACTU
16	1µF	±10%	399-3521-1-ND	1.51	5.41	0402C104K4RACTU
10	12000pF	±10%	399-4876-1-ND	3.26	17.04	0402C123K8RACTU
10	15000pF	±10%	399-4879-1-ND	3.26	17.04	0402C153K8RACTU
10	18000pF	±10%	399-4882-1-ND	3.26	17.04	0402C183K8RACTU

† Low Profile ‡ For Tape and Reel part number, change 1-ND to 2-ND

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

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