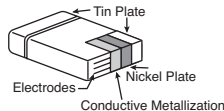
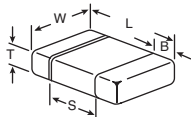


KEMET SMD Ceramic Capacitors

The Capacitance Company
KEMET
 CHARGED™



RoHS Compliant

DIMENSIONS: mm (in.)						
Metric Code	Style	L	W	B	S	
2012	0805	2.0 (.079)	1.2 (.049)	0.5 (.02)	0.75 (.030)	
3216	1206	3.2 (.126)	1.6 (.063)	0.5 (.02)	N/A	
3225	1210	3.2 (.126)	2.5 (.098)	0.5 (.02)	N/A	
4520	1808	4.5 (.177)	2.0 (.079)	0.6 (.024)	N/A	
4532	1812	4.5 (.177)	3.2 (.126)	0.6 (.024)	N/A	
4564	1825	4.5 (.177)	6.4 (.250)	0.6 (.024)	N/A	
5620	2220	5.6 (.224)	5.0 (.197)	0.6 (.024)	N/A	
5664	2225	5.6 (.224)	6.4 (.250)	0.6 (.024)	N/A	

KEMET TIP AND RING SMD CERAMIC CHIP CAPACITORS

KEMET's 250VDC or Tip & Ring MLCC capacitors are designed and rated for telecommunication ringer circuits where the capacitor is used to block -48 to -52VDC of line voltage and pass a 16-25HzAC signal pulse of 70-90Vrms. The surface mount ceramic capacitors are excellent replacements for high voltage leaded film devices. The smaller SMT footprints save valuable board space which is critical when creating new designs, and the capacitors are able to withstand today's higher lead-free reflow processing temperatures. The ceramic MLCC have excellent high frequency filtering characteristics, low ESR, and high temperature reflow capabilities. KEMET Tip and Ring capacitors are available in standard EIA case sizes and standard capacitance values from 0.001F to 1.2F. The capacitors have pure tin (100% Matte Sn) plated terminations and are 100% lead free which is ideal for new environmentally demanding designs.

Applications:

- Telecommunication ringing circuits
- Switch mode power supply
- Snubber circuits
- High voltage DC blocking
- High voltage coupling

Markets:

- Phone lines
- Analog and digital modems
- FAX machines
- Wireless base stations, ethernet
- Digital video recording set-top boxes
- Satellite dish
- Cable set-top boxes
- High voltage power supply, DC/DC converters
- Ethernet, POS, ATM hardware

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Tol. ± %	Price Each			Reel Qty.	Price Per Piece
				1	100	500		
Style 0805-Temperature Coef: X7R								
80-C0805C102KAR	C0805C102KARACTU	1000	10	.43	.26	-.168	4000	.074
80-C0805C222KAR	C0805C222KARACTU	2200	10	.45	.26	-.168	4000	.089
80-C0805C272KAR	C0805C272KARACTU	2700	10	.53	.32	-.26	4000	.16
80-C0805C332KAR	C0805C332KARACTU	3300	10	.53	.32	-.26	4000	.16
80-C0805C472KAR	C0805C472KARACTU	4700	10	.27	.21	-.168	4000	.074
80-C0805C562KAR	C0805C562KARACTU	5600	10	.46	.27	-.21	4000	.16
80-C0805C682KAR	C0805C682KARACTU	6800	10	.27	.21	-.168	4000	.092
80-C0805C822KAR	C0805C822KARACTU	8200	10	.53	.32	-.26	4000	.16
80-C0805C103KAR	C0805C103KARACTU	10000	10	.23	.09	-.048	4000	.025
80-C0805C223KAR	C0805C223KARACTU	22000	10	.35	.26	-.168	4000	.089
Style 1206-Temperature Coef: X7R								
80-C1206C562KAR	C1206C562KARACTU	5600	10	.41	.30	-.26	4000	.19
80-C1206C682KAR	C1206C682KARACTU	6800	10	.63	.41	-.29	4000	.19
80-C1206C822KAR	C1206C822KARACTU	8200	10	.32	.29	-.26	4000	.19
80-C1206C103KAR	C1206C103KARACTU	10000	10	.10	.098	-.095	4000	.06
80-C1206C123KAR	C1206C123KARACTU	12000	10	.71	.46	-.32	4000	.21
80-C1206C153KAR	C1206C153KARACTU	15000	10	.34	.23	-.20	4000	.14
80-C1206C183KAR	C1206C183KARACTU	18000	10	.71	.46	-.32	4000	.21
80-C1206C223KAR	C1206C223KARACTU	23000	10	.39	.31	-.217	4000	.095
80-C1206C273KAR	C1206C273KARACTU	27000	10	.59	.38	-.30	4000	.22
80-C1206C333KAR	C1206C333KARACTU	23000	10	.59	.38	-.30	4000	.22
80-C1206C473KAR	C1206C473KARACTU	47000	10	.39	.31	-.217	2500	.12
80-C1206C563KAR	C1206C563KARACTU	56000	10	.39	.35	-.31	2500	.24
80-C1206C683KAR	C1206C683KARACTU	68000	10	.39	.36	-.32	2500	.25
80-C1206C823KAR	C1206C823KARACTU	82000	10	.63	.36	-.32	2500	.25
80-C1206C104KAR	C1206C104KARACTU	0.1µF	10	.28	.20	-.115	4000	.055
Style 1210-Temperature Coef: X7R								
80-C1210C682KAR	C1210C682KARACTU	6800	10	.67	.53	-.43	4000	.23
80-C1210C822KAR	C1210C822KARACTU	8200	10	.67	.53	-.43	4000	.23
80-C1210C103KAR	C1210C103KARACTU	10000	10	.79	.46	-.35	4000	.177
80-C1210C123KAR	C1210C123KARACTU	12000	10	.67	.53	-.43	4000	.23
80-C1210C153KAR	C1210C153KARACTU	15000	10	.67	.53	-.43	4000	.23
80-C1210C183KAR	C1210C183KARACTU	18000	10	.67	.53	-.43	4000	.23
80-C1210C223KAR	C1210C223KARACTU	22000	10	.67	.53	-.43	4000	.23
80-C1210C273KAR	C1210C273KARACTU	27000	10	.67	.53	-.43	4000	.23
80-C1210C333KAR	C1210C333KARACTU	33000	10	.67	.53	-.43	4000	.23
80-C1210C393KAR	C1210C393KARACTU	39000	10	1.37	.88	-.66	4000	.40
80-C1210C473KAR	C1210C473KARACTU	47000	10	.71	.50	-.40	4000	.197
80-C1210C683KAR	C1210C683KARACTU	68000	10	1.47	.96	-.68	4000	.29
80-C1210C823KAR	C1210C823KARACTU	82000	10	.68	.46	-.37	2500	.195
80-C1210C104KAR	C1210C104KARACTU	0.1µF	10	.81	.55	-.44	2500	.25
Style 1812-Temperature Coef: X7R								
80-C1812C124KAR	C1812C124KARACTU	0.12µF	10	1.27	1.02	-.83	1000	.79
80-C1812C224JAR	C1812C224JARACTU	0.22µF	5	1.63	1.31	1.07	1000	.59
80-C1812C274KAR	C1812C274KARACTU	0.27µF	10	1.33	.93	-.86	1000	.80
80-C1812C334JAR	C1812C334JARACTU	0.33µF	5	1.63	1.31	1.07	1000	.59
80-C1812C334KAR	C1812C334KARACTU	0.33µF	10	.89	.65	-.53	1000	.41
80-C1812C474KAR	C1812C474KARACTU	0.47µF	10	.55	.518	-.502	1000	.325
Style 1825-Temperature Coef: X7R								
80-C1825C474KAR	C1825C474KARACTU	0.47µF	10	1.87	1.65	1.37	1000	.77
80-C1825C564KAR	C1825C564KARACTU	0.56µF	10	2.24	1.98	1.65	1000	.92
80-C1825C684KAR	C1825C684KARACTU	0.68µF	10	1.87	1.65	1.37	1000	.77
80-C1825C105KAR	C1825C105KARACTU	1.0µF	10	1.87	1.65	1.37	1000	.72
Style 2220-Temperature Coef: X7R								
80-C2220C474KAR	C2220C474KARACTU	0.47µF	10	1.63	1.34	1.20	1000	.84
80-C2220C564KAR	C2220C564KARACTU	0.56µF	10	2.75	2.20	1.79	1000	1.71
80-C2220C684KAR	C2220C684KARACTU	0.68µF	10	2.04	1.80	1.50	1000	.84
80-C2220C105KAR	C2220C105KARACTU	1.0µF	10	1.31	1.23	1.19	1000	.775
Style 2225-Temperature Coef: X7R								
80-C2225C474KAR	C2225C474KARACTU	0.47µF	10	2.46	1.79	1.49	1000	1.18
80-C2225C564KAR	C2225C564KARACTU	0.56µF	10	3.30	2.64	2.15	1000	2.05
80-C2225C684KAR	C2225C684KARACTU	0.68µF	10	2.46	1.79	1.49	1000	1.18
80-C2225C105KAR	C2225C105KARACTU	1.0µF	10	1.44	.95	-.77	1000	.52

KEMET SMD HIGH VOLTAGE CERAMIC CAPACITORS

KEMET's High Voltage Surface Mount Capacitors are designed to withstand high voltage applications. They offer high capacitance with low leakage current and low ESR at high frequency. The capacitors have pure tin (Sn) plated external electrodes for good solderability. X7R dielectrics are not designed for AC line filtering applications. An insulating coating may be required to prevent surface arcing. These components are RoHS compliant.

Applications:

- Switch mode power supply
- Input filter
- Resonators
- Tank circuit
- Snubber circuit
- Output filter
- High voltage coupling
- High voltage DC blocking
- Lighting ballast
- Voltage multiplier circuits
- Coupling capacitors/CLK

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Tol. ± %	Temp. (°C)	Reel Qty.	Price Ea.		Price Per Piece
						1	100	
Style 0805-Temperature Coef: C0G								
80-C0805C100JCG	C0805C100JCGACTU	10	500	5	22	.18	2500	.13
80-C0805C100JG	C0805C100JGACTU	10	1000	5	.24	.19	2500	.14
80-C0805C220JCG	C0805C220JCGACTU	22	500	5	.45	.31	2500	.12
80-C0805C220JG	C0805C220JGACTU	22	1000	5	.24	.19	2500	.14
80-C0805C330JG	C0805C330JGACTU	33	1000	5	.31	.29	2500	.233
80-C0805C101KCG	C0805C101KCGACTU	100	500	10	.60	.40	2500	.18
80-C0805C101JCG	C0805C101JCGACTU	100	500	5	.16	.137	2500	.071
80-C0805C101KDG	C0805C101KDGACTU	100	1000	10	.45	.27	2500	.10
Style 0805-Temperature Coef: X7R								
80-C0805C271KDR	C0805C271KDRACTU	270	1000	10	.13	.10	2500	.071
80-C0805C471JDR	C0805C471JDRACTU	470	1000	5	.33	.15	2500	.102
80-C0805C471KDR	C0805C471KDRACTU	470	1000	10	.39	.23	2500	.14
80-C0805C681KDR	C0805C681KDRACTU	680	1000	10	.31	.29	2500	.233
80-C0805C821KDR	C0805C821KDRACTU	820	1000	10	.31	.233	2500	.21
80-C0805C102KCR	C0805C102KCRACTU	1000	500	10	.12	.09	2500	.071
80-C0805C222KDR	C0805C222KDRACTU	2200	1000	10	.41	.25	2500	.12
80-C0805C472KBR	C0805C472KBRACTU	4700	630	10	.28	.094	2500	.041
80-C0805C472KDR	C0805C472KDRACTU	4700	1000	10	.30	.10	2500	.044
80-C0805C682KBR	C0805C682KBRACTU	6800	630	10	.12	.078	2500	.039
80-C0805C822KBR	C0805C822KBRACTU	8200	630	10	.20	.099	2500	.044
80-C0805C123KCR	C0805C123KCRACTU	12000	500	10	.21	.105	2500	.047
80-C0805C103KCR	C0805C103KCRACTU	10000	500	10	.30	.084	2500	.043
Style 1206-Temperature Coef: C0G								
80-C1206C100CBG	C1206C100CBGACTU	10	630	±0.25pF	1.32	1.06	2000	.45
80-C1206C200KCG	C1206C200KCGACTU	20	500	10	.79	.35	2000	.22
80-C1206C220KCG	C1206C220KCGACTU	22	500	10	.62	.49	2000	.37
80-C1206C330KCG	C1206C330KCGACTU	33	500	10	.62	.50	2000	.37
80-C1206C330KDG	C1206C330KDGACTU	33	1000	10	.66	.46	2000	.26
80-C1206C470KGG	C1206C470KGGACTU	47	2000	10	.89	.67	2000	.37
80-C1206C101KCG	C1206C101KCGACTU	100	500	10	.63	.37	2500	.189
80-C1206C101JCG	C1206C101JCGACTU	100	500	5	.45	.32	2500	.133
80-C1206C101KDG	C1206C101KDGACTU	100	1000	10	.67	.47	2500	.27
80-C1206C101KGG	C1206C101KGGACTU	100	2000	10	.75	.53	2000	.30
80-C1206C151GCG	C1206C151GCGACTU	150	500	2	1.01	.44	2500	.28