

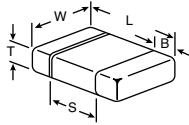
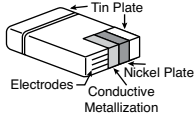
# KEMET SMD Ceramic Capacitors

## KEMET SMD HIGH VOLTAGE CERAMIC CAPACITORS (CONT.)

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/CUK



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

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price Per Piece
					1	100		
<b>Style 1808-Temperature Coef: C0G</b>								
80-C1808C100KHG	C1808C100KHGACTU	10	3000	10%	2.27	.99	1000	.71
80-C1808C330JHG	C1808C330JHGACTU	33	3000	5%	2.50	1.09	1000	.78
80-C1808C470FHG	C1808C470FHGACTU	47	3000	1%	3.36	1.47	1000	1.05
80-C1808C470KHG	C1808C470KHGACTU	47	3000	10%	2.32	1.01	1000	.72
<b>Style 1808-Temperature Coef: X7R</b>								
80-C1808C330MHR	C1808C330MHRACTU	33	3000	20%	1.88	.82	1000	.59
80-C1808C101KGR	C1808C101KGRACTU	100	2000	10%	2.04	.89	1000	.64
80-C1808C101KHR	C1808C101KHRACTU	100	3000	10%	.74	.50	1000	.224
80-C1808C681KRR	C1808C681KRRACTU	680	3000	10%	2.34	1.02	1000	.73
80-C1808C102KGR	C1808C102KGRACTU	1000	2000	10%	.87	.64	1000	.29
80-C1808C272KGR	C1808C272KGRACTU	2700	2000	10%	1.97	1.31	1000	.98
80-C1808C472MFR	C1808C472MFRACTU	4700	1500	20%	1.66	.73	1000	.52
80-C1808C103KDR	C1808C103KDRACTU	0.01µF	1000	10%	.87	.59	1000	.27
80-C1808C153KDR	C1808C153KDRACTU	0.015µF	1000	10%	1.21	.89	1000	.44
<b>Style 1812-Temperature Coef: C0G</b>								
80-C1812C100JHG	C1812C100JHGACTU	10	3000	5%	2.96	1.29	1000	.92
80-C1812C270KHG	C1812C270KHGACTU	27	3000	10%	1.73	1.30	1000	.78
80-C1812C101FDG	C1812C101FDGACTU	100	1000	1%	1.87	1.65	1000	.77
80-C1812C101JHG	C1812C101JHGACTU	100	3000	5%	2.86	2.14	1000	1.90
80-C1812C101KDG	C1812C101KDGACTU	100	1000	10%	1.63	1.31	1000	.59
80-C1812C101KHG	C1812C101KHGACTU	100	3000	10%	1.76	1.32	1000	.79
80-C1812C221MGG	C1812C221MGGACTU	220	2000	20%	2.11	.92	1000	.66
80-C1812C271JZG	C1812C271JZGACTU	270	2500	5%	1.88	1.38	1000	.69
80-C1812C391JZG	C1812C391JZGACTU	390	2500	5%	1.92	1.41	1000	.70
80-C1812C471JGG	C1812C471JGGACTU	470	2000	5%	2.59	1.95	1000	1.73
80-C1812C471JZG	C1812C471JZGACTU	470	2500	5%	2.18	1.43	1000	.86
80-C1812C681JBG	C1812C681JBGACTU	680	630	5%	1.26	.897	1000	.58
80-C1812C102JCG	C1812C102JCGACTU	1000	500	5%	1.38	.87	1000	.55
80-C1812C102KDG	C1812C102KDGACTU	1000	1000	10%	.79	.511	1000	.24
80-C1812C152JCG	C1812C152JCGACTU	1500	500	5%	2.36	1.03	1000	.74
80-C1812C222JCG	C1812C222JCGACTU	2200	500	5%	2.37	1.04	1000	.74
<b>Style 1812-Temperature Coef: X7R</b>								
80-C1812C102KDR	C1812C102KDRACTU	1000	1000	10%	.74	.50	1000	.224
80-C1812C102KGR	C1812C102KGRACTU	1000	2000	10%	.74	.50	1000	.224
80-C1812C102KHR	C1812C102KHRACTU	1000	3000	10%	.74	.50	1000	.224
80-C1812C222JDR	C1812C222JDRACTU	2200	1000	5%	1.98	1.35	1000	.99
80-C1812C472KDR	C1812C472KDRACTU	4700	1000	10%	.74	.50	1000	.224
80-C1812C101KDR	C1812C101KDRACTU	100	1000	10%	1.94	.85	1000	.61
80-C1812C101MDR	C1812C101MDRACTU	100	1000	20%	1.62	.71	1000	.51
80-C1812C471KGR	C1812C471KGRACTU	470	2000	10%	.87	.56	1000	.36
80-C1812C332KGR	C1812C332KGRACTU	3300	2000	10%	2.11	1.05	1000	.79

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt (DC)	Tol.±	Price Each		Reel Qty.	Price Per Piece
					1	100		
<b>Style 1812-Temperature Coef: X7R (Cont.)</b>								
80-C1812C392KGR	C1812C392KGRACTU	3900	2000	10%	1.44	1.05	1000	.52
80-C1812C183KDR	C1812C183KDRACTU	0.018µF	1000	10%	1.29	.95	1000	.47
80-C1812C333KCR	C1812C333KCRACTU	0.033µF	500	10%	1.92	.84	1000	.60
80-C1812C473JCR	C1812C473JCRACTU	0.047µF	500	5%	2.61	1.96	1000	1.57
80-C1812C103KCR	C1812C103KCRACTU	0.01µF	500	10%	.71	.48	1000	.216
80-C1812C103KDR	C1812C103KDRACTU	0.01µF	1000	10%	.74	.50	1000	.224
80-C1812C103MDR	C1812C103MDRACTU	0.01µF	1000	20%	1.05	.79	1000	.47
80-C1812C394KAR	C1812C394KARACTU	0.39µF	250	10%	1.33	1.07	1000	.83
80-C1812C474MAR	C1812C474MARACTU	0.47µF	250	20%	2.10	.67	1000	.45
80-C1812C473KCR	C1812C473KCRACTU	0.047µF	500	10%	.77	.465	1000	.23
80-C1812C104JAR	C1812C104JARACTU	0.1µF	250	5%	1.03	.75	1000	.48
80-C1812C104KAR	C1812C104KARACTU	0.1µF	250	10%	1.02	.83	1000	.37
<b>Style 1825-Temperature Coef: C0G</b>								
80-C1825C511JZG	C1825C511JZGACTU	510	2500	5%	3.12	2.76	1000	1.28
80-C1825C561JZG	C1825C561JZGACTU	560	2500	5%	3.12	2.76	1000	1.28
80-C1825C681JZG	C1825C681JZGACTU	680	2500	5%	3.12	2.50	1000	1.28
80-C1825C102JZG	C1825C102JZGACTU	1000	2500	5%	5.64	2.82	1000	2.12
80-C1825C472JBG	C1825C472JBGACTU	4700	630	5%	2.67	2.36	1000	1.10
<b>Style 1825-Temperature Coef: X7R</b>								
80-C1825C102KZR	C1825C102KZRACTU	1000	2500	10%	3.85	2.69	1000	2.31
80-C1825C102KHR	C1825C102KHRACTU	1000	3000	10%	4.79	3.26	1000	2.39
80-C1825C103KCR	C1825C103KCRACTU	0.01µF	500	10%	3.10	2.17	1000	1.86
80-C1825C124MCR	C1825C124MCRACTU	0.12µF	500	20%	3.37	1.48	1000	1.05
80-C1825C154KCR	C1825C154KCRACTU	0.15µF	500	10%	2.64	1.16	1000	.83
80-C1825C103KCR	C1825C103KCRACTU	0.01µF	500	10%	3.10	2.17	1000	1.86
80-C1825C103KDR	C1825C103KDRACTU	0.01µF	1000	10%	3.29	2.30	1000	1.97
80-C1825C104KCR	C1825C104KCRACTU	0.1µF	500	10%	3.16	2.21	1000	1.90
<b>Style 2220-Temperature Coef: C0G</b>								
80-C2220C681JZG	C2220C681JZGACTU	680	2500	5%	4.71	4.18	1000	1.97
80-C2220C102FCG	C2220C102FCGACTU	1000	500	1%	10.12	4.43	1000	3.16
80-C2220C102JBG	C2220C102JBGACTU	1000	630	5%	4.10	3.71	1000	1.73
<b>Style 2220-Temperature Coef: X7R</b>								
80-C2220C221KGR	C2220C221KGRACTU	220	2000	10%	7.19	3.15	1000	2.25
<b>Style 2225-Temperature Coef: X7R</b>								
80-C2225C102MHR	C2225C102MHRACTU	1000	3000	20%	7.86	3.44	1000	2.46
80-C2225C123KGR	C2225C123KGRACTU	0.012µF	2000	10%	8.04	4.02	1000	3.02
80-C2225C563KDR	C2225C563KDRACTU	0.056µF	1000	10%	3.96	3.19	1000	2.17
80-C2225C103KGR	C2225C103KGRACTU	0.01µF	2000	10%	2.67	1.87	1000	1.60
80-C2225C1224KCR	C2225C1224KCRACTU	0.22µF	500	10%	2.55	2.25	1000	1.05
80-C2225C104KCR	C2225C104KCRACTU	0.1µF	500	10%	2.55	2.25	1000	1.05
80-C2225C125KAR	C2225C125KARACTU	1.2µF	250	10%	2.24	1.98	1000	.92

## HIGH VOLTAGE CERAMIC CAPACITOR ENGINEERING KIT

MOUSER STOCK NO.	Type	Case size	Volt	Value (pF)	Temp. Coef.	Price Each
80-CERENK1708 (20 pcs each value)	Leaded	N/A	2000	1000	X7R	52.00
	Leaded	N/A	3000	1000	X7R	
	Leaded	N/A	1000	1000	C0G	
	Leaded	N/A	3000	100	C0G	
	Leaded	N/A	500	47000	X7R	
	Leaded	N/A	1000	10000	X7R	
	Leaded	N/A	1500	1000	X7R	
	Leaded	N/A	500	100	C0G	
	Leaded	N/A	1000	470	C0G	
	SMT	0805	500	100	C0G	
	SMT	1206	500	4700, 10000	X7R	
	SMT	1206	1500	470	X7R	
	SMT	1206	500	330	C0G	
	SMT	1210	1000	10000	X7R	
	SMT	1808	2000	1000	X7R	
	SMT	1812	500	1000, 47000	X7R	
	SMT	1812	2000	1000	X7R	
	SMT	2225	500	100000	X7R	