

# SYFER FLEXICAP™ SMD Ceramic Capacitors



## SYFER CAPACITORS

SYFER'S FlexiCap™ Ceramic Surface Mount Capacitor technology was developed to provide improved resistance to the risk of mechanical stress cracking in ceramic chip capacitors.

### Features:

- Allows a greater degree of PCB deflection, typically twice that of standard MLCC's
- FlexiCap termination does not affect electrical characteristics or performance of the devices which can be used with no changes to the manufacturing process
- More resistant to temperature cycling

### Specifications:

- Operating range: -55°C to +125°C (max. capacitance change: ±15%)
- Insulation resistance: 100 gijohm or 1000s, whichever is less
- Dissipation Factor: < 0.025
- Dielectric strength with voltage applied for 5 seconds: ≤ 200 Volts: 2.5 times; 500 & 630 Volts: 1.5 times; ≥ 1 kV: 1.25 times

### Markets:

- Power Supplies: DC-DC Converters, UPS systems
- Telecom: Backplanes, linecards, modems, and base stations
- Lighting ballasts
- Industrial

### Applications:

- Can be used in all designs currently using standard MLCC's
- Suggested for high stress, critical circuit applications



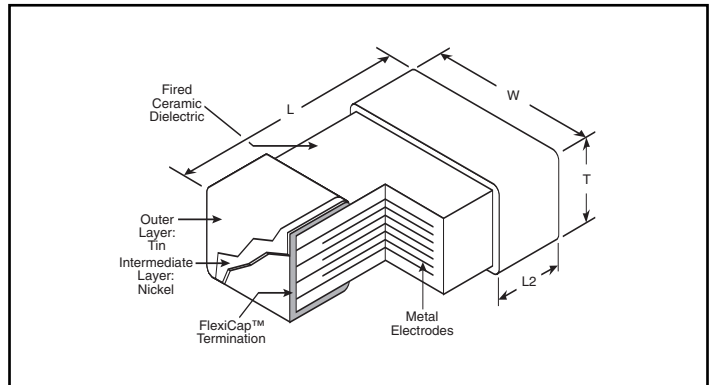
LEAD-FREE



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Syfer Part No.	Value (pF)	Volt (DC)	Tol. (%)	Price Each			Reel Qty.	Price Per Piece
					1	100	500		
<b>Style 0603-Temperature Coeff. X7R</b>									
843-0603Y2000101K	0603Y2000101KXKT	100	200	10	.38	.27	.14	4000	.09
843-0603Y2000151K	0603Y2000151KXKT	150	200	10	.38	.27	.14	4000	.09
843-0603Y2000221K	0603Y2000221KXKT	220	200	10	.38	.27	.14	4000	.09
843-0603Y2000331K	0603Y2000331KXKT	330	200	10	.38	.27	.14	4000	.09
843-0603Y2000471K	0603Y2000471KXKT	470	200	10	.38	.27	.14	4000	.09
843-0603Y2000681K	0603Y2000681KXKT	680	200	10	.38	.27	.14	4000	.09
843-0603Y2000102K	0603Y2000102KXKT	1000	200	10	.41	.29	.15	4000	.10
843-0603Y2000152K	0603Y2000152KXKT	1500	200	10	.41	.29	.15	4000	.10
843-0603Y2000222K	0603Y2000222KXKT	2200	200	10	.41	.29	.15	4000	.10
843-0603Y2000332K	0603Y2000332KXKT	3300	200	10	.42	.30	.15	4000	.10
843-0603Y2000472K	0603Y2000472KXKT	4700	200	10	.46	.33	.16	4000	.11
<b>Style 0805-Temperature Coeff. X7R</b>									
843-0805Y5000101K	0805Y5000101KXKT	100	500	10	.39	.28	.14	3000	.10
843-0805Y5000221K	0805Y5000221KXKT	220	500	10	.39	.28	.14	3000	.10
843-0805Y5000471K	0805Y5000471KXKT	470	500	10	.39	.28	.14	3000	.10
843-0805Y2000102K	0805Y2000102KXKT	1000	200	10	.59	.42	.21	3000	.15
843-0805Y2000682K	0805Y2000682KXKT	6800	200	10	.46	.33	.16	3000	.11
843-0805Y2000103K	0805Y2000103KXKT	10000	200	10	.61	.43	.22	3000	.15
843-0805Y2000153K	0805Y2000153KXKT	15000	200	10	.67	.48	.24	3000	.17
843-0805Y2000223K	0805Y2000223KXKT	22000	200	10	.73	.52	.26	3000	.18
843-0805Y0500104K	0805Y0500104KXKT	.1µF	50	10	.57	.41	.20	3000	.14
<b>Style 1206-Temperature Coeff. X7R</b>									
843-1206Y6300470K	1206Y6300470KXKT	47	630	10	.52	.37	.19	2500	.13
843-1206Y1K00101K	1206Y1K00101KXKT	100	1000	10	.67	.48	.24	2500	.17
843-1206Y5000101K	1206Y5000101KXKT	100	500	10	.67	.48	.24	2500	.17
843-1206Y2K00471K	1206Y2K00471KXKT	470	2000	10	.69	.49	.25	2500	.17
843-1206Y1K00471K	1206Y1K00471KXKT	470	1000	10	.67	.48	.24	2500	.17
843-1206Y6300471K	1206Y6300471KXKT	470	630	10	.60	.43	.22	2500	.15
843-1206Y5000471K	1206Y5000471KXKT	470	500	10	.78	.56	.28	2500	.19
843-1206Y2K00102K	1206Y2K00102KXKT	1000	2000	10	.73	.52	.26	2500	.18
843-1206Y1K00102K	1206Y1K00102KXKT	1000	1000	10	.70	.50	.25	2500	.18
843-1206Y6300102K	1206Y6300102KXKT	1000	630	10	.60	.43	.22	2500	.15
843-1206Y6300102M	1206Y6300102MXKT	1000	630	20	.55	.39	.20	2500	.14
843-1206Y5000102K	1206Y5000102KXKT	1000	500	10	.85	.61	.31	2500	.21
843-1206Y5000152K	1206Y5000152KXKT	1500	500	10	.88	.63	.31	2500	.22
843-1206Y2000222K	1206Y2000222KXKT	2200	200	10	.73	.52	.26	2500	.18
843-1206Y1K00272K	1206Y1K00272KXKT	2700	1000	10	.79	.57	.28	2500	.20
843-1206Y1K00472K	1206Y1K00472KXKT	4700	1000	10	.83	.59	.30	2500	.21
843-1206Y6300472K	1206Y6300472KXKT	4700	630	10	.76	.55	.27	2500	.19
843-1206Y5000472K	1206Y5000472KXKT	4700	500	10	.57	.41	.21	2500	.14
843-1206Y2000472K	1206Y2000472KXKT	4700	200	10	.73	.52	.26	2500	.18
843-1206Y6300103K	1206Y6300103KXKT	.01µF	630	10	.87	.62	.31	2500	.22
843-1206Y5000103K	1206Y5000103KXKT	.01µF	500	10	.64	.46	.23	2500	.16
843-1206Y2000103K	1206Y2000103KXKT	.01µF	200	10	.81	.58	.29	2500	.20
843-1206Y5000153K	1206Y5000153KXKT	.015µF	500	10	.74	.53	.26	2500	.19
843-1206Y5000223K	1206Y5000223KXKT	.022µF	500	10	.74	.53	.26	2500	.19
843-1206Y5000333K	1206Y5000333KXKT	.033µF	500	10	.85	.61	.31	2500	.21
843-1206Y2000333K	1206Y2000333KXKT	.033µF	200	10	1.02	.73	.37	2500	.26
843-1206Y2000473K	1206Y2000473KXKT	.047µF	200	10	1.17	.84	.42	2500	.29
843-1206Y2000683K	1206Y2000683KXKT	.068µF	200	10	1.17	.84	.42	2500	.29
843-1206Y2000104K	1206Y2000104KXKT	.1µF	200	10	1.30	.93	.46	2500	.32
843-1206Y1000104K	1206Y1000104KXKT	.1µF	100	10	1.06	.76	.38	2500	.27
843-1206Y0500104K	1206Y0500104KXKT	.1µF	50	10	.67	.48	.24	2500	.17
843-1206Y0500474K	1206Y0500474KXKT	.47µF	50	10	1.44	1.03	.52	2500	.36
843-1206Y0160105K	1206Y0160105KXKT	1µF	16	10	1.75	1.25	.63	2500	.44



Style	DIMENSIONS: mm (In.)			
	L	W	T Max.	L2 Max.
0603	1.6±0.2 (.063±.008)	.8±0.2 (.031±.008)	0.8 (.031)	0.40 (.015)
0805	2.0±0.3 (.080±.012)	1.25±0.2 (.05±.008)	1.3 (.051)	0.75 (.030)
1206	3.2±0.3 (.126±.012)	1.6±0.2 (.063±.008)	1.6 (.063)	0.75 (.030)
1210	3.2±0.3 (.126±.012)	2.5±0.3 (.100±.012)	2.0 (.08)	0.75 (.030)
1808	4.5±0.35 (.18±.014)	2.0±0.3 (.080±.012)	2.0 (.08)	1.0 (.040)
1812	4.5±0.35 (.18±.014)	3.2±0.3 (.126±.012)	2.5 (.10)	1.0 (.040)
2220	5.7±0.4 (.225±.016)	5.0±0.4 (.197±.016)	2.5 (.10)	1.0 (.040)

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					1	100	500		
<b>Style 1210-Temperature Coeff. X7R</b>									
843-1210Y5000222K	1210Y5000222KXKT	2200	500	10	1.48	1.06	.53	2000	.37
843-1210Y1K00472K	1210Y1K00472KXKT	4700	1000	10	1.29	.92	.46	2000	.32
843-1210Y1K00103K	1210Y1K00103KXKT	.01µF	1000	10	1.39	.99	.50	2000	.35
843-1210Y5000103K	1210Y5000103KXKT	.01µF	500	10	.95	.68	.34	2000	.24
843-1210Y2000103K	1210Y2000103KXKT	.01µF	200	10	1.50	1.07	.54	2000	.38
843-1210Y1K00153K	1210Y1K00153KXKT	.015µF	1000	10	1.66	1.18	.59	2000	.41
843-1210Y5000153K	1210Y5000153KXKT	.015µF	500	10	.95	.68	.34	2000	.24
843-1210Y5000223K	1210Y5000223KXKT	.022µF	500	10	1.06	.76	.38	2000	.26
843-1210Y5000333K	1210Y5000333KXKT	.033µF	500	10	1.29	.92	.46	2000	.32
843-1210Y5000473K	1210Y5000473KXKT	.047µF	500	10	1.29	.92	.46	2000	.32
843-1210Y5000683K	1210Y5000683KXKT	.068µF	500	10	1.44	1.03	.52	2000	.36
843-1210Y5000104K	1210Y5000104KXKT	.1µF	500	10	1.63	1.16	.58	2000	.41
843-1210Y2000104K	1210Y2000104KXKT	.1µF	200	10	2.09	1.49	.75	2000	.52
843-1210Y2000124K	1210Y2000124KXKT	.12µF	200	10	2.34	1.67	.84	2000	.58
843-1210Y2000154K	1210Y2000154KXKT	.15µF	200	10	2.34	1.67	.84	2000	.58
843-1210Y2000184K	1210Y2000184KXKT	.18µF	200	10	2.34	1.67	.84	2000	.58
<b>Style 1808-Temperature Coeff. X7R</b>									
843-1808Y3K00101K	1808Y3K00101KXKT	100	3000	10	1.34	.96	.48	1500	.33
843-1808Y3K00102K	1808Y3K00102KXKT	1000	3000	10	1.41	1.01	.50	1500	.35
843-1808Y2K00102K	1808Y2K00102KXKT	1000	2000	10	1.24	.89	.44	1500	.31
843-1808Y2K00222K	1808Y2K00222KXKT	2200	2000	10	1.49	1.06	.53	1500	.37
<b>Style 1812-Temperature Coeff. X7R</b>									
843-1812Y3K00681K	1812Y3K00681KXKT	680	3000	10	2.51	1.79	1.07	1000	.90
843-1812Y3K00102K	1812Y3K00102KXKT	1000	3000	10	2.51	1.79	1.08	1000	.90
843-1812Y2K00102K	1812Y2K00102KXKT	1000	2000	10	2.33	1.66	1.00	1000	.83
843-1812Y5000102K	1812Y5000102KXKT	1000	500	10	1.87	1.34	.80	1000	.67
843-1812Y3K00222K	1812Y3K00222KXKT	2200	3000	10	2.76	1.97	1.18	1000	.99
843-1812Y2K00222K	1812Y2K00222KXKT	2200	2000	10	2.33	1.66	1.00	1000	.83
843-1812Y2K00472K	1812Y2K00472KXKT	4700	2000	10	2.50	1.79	1.07	1000	.89
843-1812Y1K00103K	1812Y1K00103KXKT	.01µF	1000	10	2.51	1.79	1.08	1000	.90
843-1812Y50									