

SYFER FLEXICAP™ SMD Ceramic Capacitors

RoHS Compliant This page of product is compliant.



SYFER CAPACITORS

Developed and marketed by Syfer in 2001, FlexiCap™ flexible termination has been on PC boards for tens of thousands of operating hours. No other flexible termination on the market has a track record as long as Syfer's. An estimated 99% of all ceramic chip failures are due to mechanical flex. FlexiCap™ is applied to the device under the standard nickel barrier finish to accommodate a greater degree of board bending than conventional capacitors. FlexiCap™ will virtually eliminate mechanical flex cracking problems. FlexiCap™ is RoHS compliant and compatible with both leaded and lead-free solder processes.

Features:

- Allows a greater degree of PCB deflection, typically twice that of standard MLCCs
- 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:

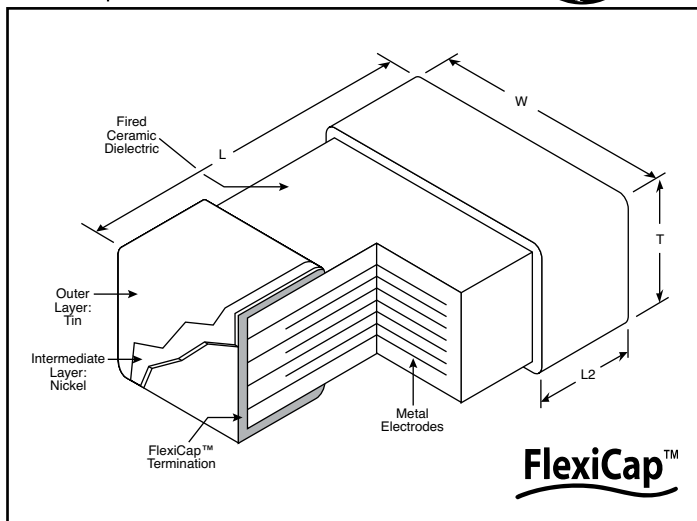
- Operating range: -55°C to +125°C (max. capacitance change: ±15%)
- Insulation resistance: 100 gohm or 1000s, whichever is less
- Dissipation factor: < 0.025
- Dielectric strength with voltage applied for 5 seconds:
 - ≤ 200 Volts: 2.5 times; 500 & 630 Volts: 1.5 times;
 - ≥ 1 kV: 1.25 times

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 MLCCs
- Suggested for high stress, critical circuit applications



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)
2225	5.7±0.4 (.225±.016)	6.3±0.4 (.25±.016)	2.5 (.10)	1.0 (.040)



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	50	100		
Style 0603-Temperature Coeff. X7R									
843-0603Y2000101K	0603Y2000101KXKT	100	200	10				4000	
843-0603Y2000151K	0603Y2000151KXKT	150	200	10				4000	
843-0603Y2000152K	0603Y2000152KXKT	1500	200	10				4000	
843-0603Y2000472J	0603Y2000472JXT	4700	200	5				4000	
843-0603Y2000472K	0603Y2000472KXKT	4700	200	10				4000	
Style 0805-Temperature Coeff. X7R									
843-0805Y5000101K	0805Y5000101KXKT	100	500	10				3000	
843-0805Y5000221K	0805Y5000221KXKT	220	500	10				3000	
843-0805Y5000471K	0805Y5000471KXKT	470	500	10				3000	
843-0805Y0500102M	0805Y0500102MXKT	1000	50	10				3000	
843-0805Y2000102K	0805Y2000102KXKT	1000	200	10				3000	
843-0805Y1K00472K	0805Y1K00472KXKT	4700	1000	10				3000	
843-0805Y2000103K	0805Y2000103KXKT	10000	200	10				3000	
843-0805Y2000223K	0805Y2000223KXKT	22000	200	10				3000	
843-0805Y5000103K	0805Y5000103KXKT	.01µF	500	10				3000	
843-0805Y0500104K	0805Y0500104KXKT	.1µF	50	10				3000	
Style 1206-Temperature Coeff. X7R									
843-1206Y6300470K	1206Y6300470KXKT	47	630	10				2500	
843-1206Y1K00101K	1206Y1K00101KXKT	100	1000	10				2500	
843-1206Y5000101K	1206Y5000101KXKT	100	500	10				2500	
843-1206Y5000471K	1206Y5000471KXKT	470	500	10				2500	
843-1206Y6300471K	1206Y6300471KXKT	470	630	10				2500	
843-1206Y2K00471K	1206Y2K00471KXKT	470	2000	10				2500	
843-1206Y5000102K	1206Y5000102KXKT	1000	500	10				2500	
843-1206Y6300102K	1206Y6300102KXKT	1000	630	10				2500	
843-1206Y1K00102K	1206Y1K00102KXKT	1000	1000	10				2500	
843-1206Y2K00102K	1206Y2K00102KXKT	1000	2000	10				2500	
843-1206Y1K00272K	1206Y1K00272KXKT	2700	1000	10				2500	
843-1206Y6300472K	1206Y6300472KXKT	4700	630	10				2500	
843-1206Y1K00472K	1206Y1K00472KXKT	4700	1000	10				2500	
843-1206Y6300103K	1206Y6300103KXKT	.01µF	630	10				2500	
843-1206Y1K50103K	1206Y1K50103KXKT	.01µF	1500	10				2500	
843-1206Y1K20153K	1206Y1K20153KXKT	.015µF	1200	10				2500	
843-1206Y5000223K	1206Y5000223KXKT	.022µF	500	10				2500	
843-1206Y1K00273K	1206Y1K00273KXKT	.027µF	1000	10				2500	
843-1206Y5000333K	1206Y5000333KXKT	.033µF	500	10				2500	
843-1206Y6300333K	1206Y6300333KXKT	.033µF	630	10				2500	
843-1206Y2000473K	1206Y2000473KXKT	.047µF	200	10				2500	
843-1206Y5000473K	1206Y5000473KXKT	.047µF	500	10				2500	
843-1206Y0500104K	1206Y0500104KXKT	.1µF	50	10				2500	
843-1206Y1000104K	1206Y1000104KXKT	.1µF	100	10				2500	
843-1206Y2000104K	1206Y2000104KXKT	.1µF	200	10				2500	
843-1206Y0500474K	1206Y0500474KXKT	.47µF	50	10				2500	
843-1206Y0160105K	1206Y0160105KXKT	1µF	16	10				2500	

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MOUSER STOCK NO.	Syfer Part No.	Value (pF)	Volt (DC)	Tol. (%)	Price Each			Reel Qty.	Price Per Piece
					1	50	100		
Style 1210-Temperature Coeff. X7R									
843-1210Y5000222K	1210Y5000222KXKT	2200	500	10				2000	
843-1210Y2K00222K	1210Y2K00222KXKT	2200	2000	10				2000	
843-1210Y1K00472K	1210Y1K00472KXKT	4700	1000	10				2000	
843-1210Y1K50472K	1210Y1K50472KXKT	4700	1500	10				2000	
843-1210Y5000103K	1210Y5000103KXKT	.01µF	500	10				2000	
843-1210Y1K00103K	1210Y1K00103KXKT	.01µF	1000	10				2000	
843-1210Y1K00153K	1210Y1K00153KXKT	.015µF	1000	10				2000	
843-1210Y1K00333K	1210Y1K00333KXKT	.033µF	1000	10				2000	
843-1210Y5000473K	1210Y5000473KXKT	.047µF	500	10				2000	
843-1210Y6300473K	1210Y6300473KXKT	.047µF	630	10				2000	
843-1210Y5000104K	1210Y5000104KXKT	.1µF	500	10				2000	
843-1210Y5000124K	1210Y5000124KXKT	.12µF	500	10				2000	
843-1210Y2000184K	1210Y2000184KXKT	.18µF	200	10				2000	
Style 1808-Temperature Coeff. X7R									
843-1808Y3K00102K	1808Y3K00102KXKT	1000	3000	10				1500	
843-1808Y2K00222K	1808Y2K00222KXKT	2200	2000	10				1500	
Style 1812-Temperature Coeff. X7R									
843-1812Y3K00120J	1812Y3K00120JCT	12	3000	5				1000	
843-1812Y3K00681K	1812Y3K00681KXKT	680	3000	10				1000	
843-1812Y2K00102K	1812Y2K00102KXKT	1000	2000	10				1000	
843-1812Y3K00102K	1812Y3K00102KXKT	1000	3000	10				1000	
843-1812Y3K00152K	1812Y3K00152KXKT	1500	3000	10				1000	
843-1812Y3K00222K	1812Y3K00222KXKT	2200	3000	10				1000	
843-1812Y2K00472K	1812Y2K00472KXKT	.47µF	2000	10				1000	
843-1812Y6300183K	1812Y6300183KXKT	.018µF	630	10				1000	
843-1812Y5000473K	1812Y5000473KXKT	.047µF	500	10				1000	
843-1812Y1K00473K	1812Y1K00473KXKT	.047µF	1000	10				1000	
843-1812Y5000104K	1812Y5000104KXKT	.1µF	500	10				1000	
843-1812Y1K00104K	1812Y1K00104KXKT	.1µF	1000	10				1000	
843-1812Y5000124K	1812Y5000124KXKT	.12µF	500	10				1000	
843-1812Y2000224K	1812Y2000224KXKT	.22µF	200	10				1000	
843-1812Y5000224K	1812Y5000224KXKT	.22µF	500	10				1000	
843-1812Y2000274K	1812Y2000274KXKT	.27µF	200	10				1000	
843-1812Y5000274K	1812Y5000274KXKT	.27µF	500	10				1000	
843-1812Y5000334K	1812Y5000334KXKT	.33µF	500	10				1000	
843-1812Y2500474K	1812Y2500474KXKT	.47µF	250	10				1000	
843-1812Y1000105K	1812Y1000105KXKT	1µF	100	10				1000	
Style 2220-Temperature Coeff. X7R									
843-2220Y2K00103K	2220Y2K00103KXKT	.01µF	2000	10				1000	
843-2220Y1K00104K	2220Y1K00104KXKT	.1µF	1000	10				1000	
843-2220Y1000105K	2220Y1000105KXKT	1µF	100	10				1000	
Style 2225-Temperature Coeff. X7R									
843-2225Y1K00154M	2225Y1K00154MXKT	.15µF	1000	10				1000	
843-2225Y2500105J	2225Y2500105JXT	1µF	250	5				1000	