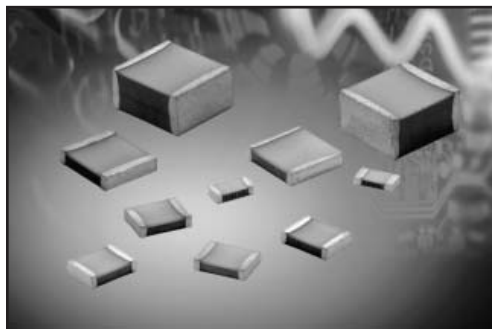


Film Chip Capacitors

CB-PEN Series PEN Dielectric



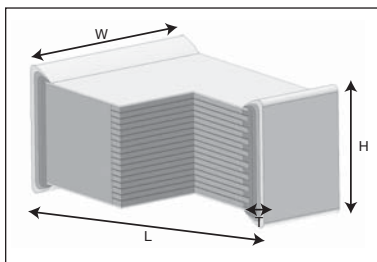
Film chip capacitor using a naked and stacked construction with metallized PEN (polyethylene naphthalate).

- Use of high temperature dielectric films makes these capacitors suitable for IR or vapor phase reflow processes. This chip is built without specific encapsulation.
- The intrinsic elasticity of the dielectric film allows an excellent compatibility of the capacitor with all types of material for printed circuit boards.
- The self-healing property of film technology results in a safe open circuit failure mode and better overall reliability.
- Excellent thermal shock resistance
- Low dissipation factor, ESR & ESL
- No piezoelectric effect
- Available in tape and reel suitable for automatic placement
- Non-polar construction.

Check for up-to-date CV Tables at <http://www.avx.com/docs/catalogs/cb-pen.pdf>

HOW TO ORDER

CB Type SMD Lead Free	01 Size 01 = 1206 02 = 1210 03 = 1812 04 = 2220 05 = 2824	7 Dielectric 7 = PEN	D Voltage 25V = C 50/63V = D 100V = E 250V = G	0103 Capacitance EIA Code 1st digit: 0 2nd & 3rd digit: the 2nd significant figures of the capacitance value 4th digit: the number of zeros to be added to the capacitance value	J Tolerance K = 10% J = 5%	BA Suffix Packaging -- = Bulk BA = tape & reel diameter: 180mm BC = tape & reel diameter: 330mm
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millimeters (inches)

Size Code	Equivalent Size	Length (L)	Width (W)
01	1206	3.2±0.30 (0.126±0.012)	1.6±0.30 (0.063±0.012)
02	1210	3.2±0.30 (0.126±0.012)	2.5±0.30 (0.098±0.012)
03	1812	4.5±0.50 (0.177±0.020)	3.2±0.50 (0.126±0.020)
04	2220	5.7±0.50 (0.224±0.020)	5.0±0.50 (0.197±0.020)
05	2824	7.1±0.50 (0.280±0.020)	6.1±0.50 (0.240±0.020)

VOLTAGE (Vdc / Vac)											
Capacitance		25 Vdc / 16 Vac		50-63 Vdc / 40 Vac		100 Vdc - 63 Vac		250 Vdc / 160 Vac		400 Vdc / 200 Vac	
Value	Cap Code	Size Code	H max	Size Code	H max	Size Code	H max	Size Code	H max	Size Code	H max
0.001µF	0102	1206	1.15	1206	1.15	1206	1.15	1812	2.0		
0.0015	0152	1206	1.15	1206	1.15	1206	1.15	1812	2.0		
0.0022	0222	1206	1.15	1206	1.15	1206	1.15	1812	2.0		
0.0033	0332	1206	1.15	1206	1.15	1206	1.15	1812	2.0		
0.0047	0472	1206	1.15	1206	1.15	1206	1.15	1812	2.0		
0.0068	0682	1206	1.15	1206	1.15	1206	1.15	1812	2.0		
0.010	0103	1206	1.15	1206	1.15	1206	1.15	1812	2.0	2220	1.9
0.015	0153	1206	1.15	1206	1.15	1210	1.8	1812	2.4	2220	2.2
0.022	0223	1206	1.15	1206	1.15	1210	1.8	1812	2.9	2220	2.8
0.033	0333	1210	1.8	1210	1.8	1812	2.0	2220	2.2	2220	2.8
0.047	0473	1210	1.8	1210	1.8	1812	2.6	2220	2.9	2220	3.5
0.068	0683	1210	1.8	1210	1.8	1812	2.0	2220	4.0		
0.100	0104	1210	2.3	1210	2.3	1812	3.0	2220	4.4		
0.150	0154			1812	2.0	2220	3.3	2824	4.6		
0.220	0224			1812	3.0	2220	4.0	2824	5.7		
0.330	0334			2220	4.0	2220	4.2				
0.470	0474			2220	4.0	2824	5.0				
0.680	0684			2220	3.9	2824	5.1				
1µF	0105			2824	5.0						
1.5	0155			2824	5.2						

For other values : upon request
 Voltages 400 & 630V : development range



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