

HBC Series Low-Loss, High Frequency Snubber Capacitors



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- ☐ Low stable ESR at high frequency.
- ☐ Ultra stable NP0 performance.
- ☐ Suitable for solder wave and reflow soldering.
- □ ROHS compliant.
- ☐ High peak to peak voltage capability.

◆ Application

- ☐ High frequency pulse circuits.
- ☐ Lighting ballast snubber circuits.
- □ DC-DC converters.
- ☐ High dv/dt rating.

♦ Summary of Specifications

Operating Temperature	-55~+125 ℃						
Rated Voltage	500V and 630Vdc						
Temperature Coefficient	≤ ± 30ppm at -55~+125 °C						
Capacitance Range	10pF ~ 2700pF						
Dissipation Factor	0.1% max. at 1MHz 25°C						
Insulation Resistance	10GΩ						
Dielectric Withstanding	1.5 × WVDC for 5 sec						
Capacitance Tolerance	F, G, J, K						
Ageing	None						
Piezo Effects	None						
dv/dt rating	>6KV/μ second						

♦ How To Order

HBC	1206	N	100	J		501	Т	
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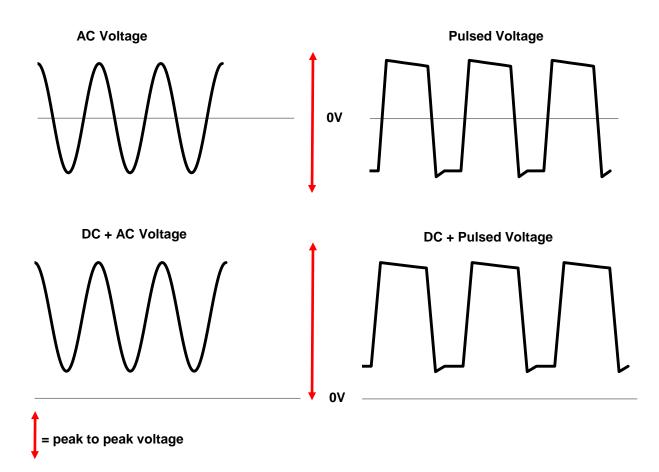
Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
HBC : Low-loss High Frequency Capacitors	Ex. : 1206 1210	Ex. : N : NP0	Ex.: 100:10×10 ⁰ 101:10×10 ¹ 102:10×10 ²	Ex.: F:±1% G:±2% J:±5% K:±10%	Ex. : 501 : 500Vdc 631 : 630Vdc	T : Tape & Reel B : Bulk



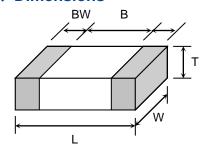


◆ Characteristics Peak to Peak Voltage

To convert a DC voltage rating to maximum peak to peak voltage a conversion factor of 1.25 : 1 should be Used. For example : 500VDC rating = 500/1.25 = 400V peak to peak voltage where peak to peak is defined as below.



♦ Dimensions



Unit : mm [incl														
TYPE	L	W	T (max)	B (min)	BW (min)									
1206	3.20±0.3	1.60±0.2	1.80	1.50	0.30									
1210	3.20±.30	2.50±0.2	2.60	1.60	0.30									

♦ Capacitance Range

Dielectric Size Characteristic		Capacitance Range																													
	Size	Voltage	100		150	180	220		330	390	470	560	680	101	0 0	151	181	221	271	ا اث	56.1	102	122	152	182	272	684	824	105	155	225
NP0	1206	500V																													
	1206	630V																													
	1210	500V																													
	1210	630V																													

Other dimensions, capacitance values and voltage ratings are available. Please contact HEC.

