

Multilayer Ceramic Capacitors

[Low-Loss, High Frequency Capacitors]

HBC Series



◆ Features

- 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

◆ Applications

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

◆ Summary of Specifications

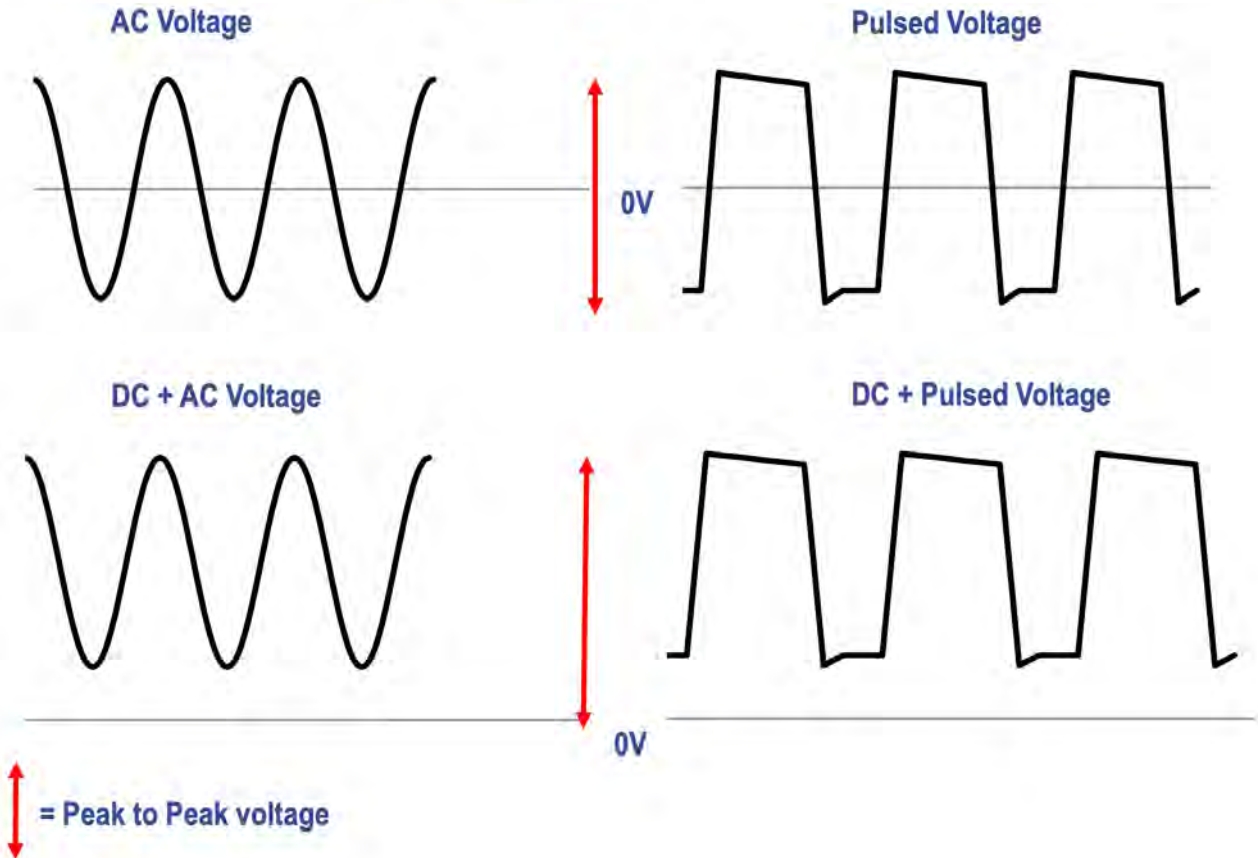
Operation Temperature	-55 °C to +125 °C
Rated Voltage	500Vdc, 630Vdc and 1000Vdc
Temperature Coefficient	≤ ± 30ppm at -55 °C to +125 °C
Capacitance Range	10pF ~ 2700pF
Dissipation Factor	0.1% max. at 1MHz 25 °C
Insulation Resistance	10GΩ
Dielectric Withstanding	1.5 × WVDC for 5 sec
Capacitance Tolerance	±1%, ±2%, ±5%, ±10%
Ageing	None
Piezo Effects	None
dv/dt Rating	>8KV/μ second

◆ How To Order

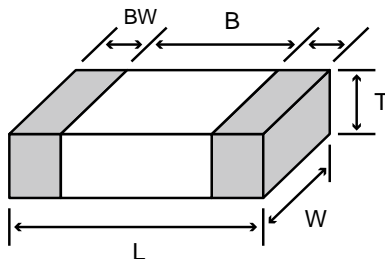
Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Thickness (mm) (Optional)	Suffix Code
HBC: Low-Loss High Frequency Capacitor	Ex.: 1206 1210	Ex.: N: NP0	Ex.: 100 : 10×10 ⁰ 101 : 10×10 ¹ 102 : 10×10 ²	Ex.: F : ± 1% G : ± 2% J : ± 5% K : ± 10%	Ex.: 501 : 500Vdc 631 : 630Vdc 102 : 1000Vdc	Ex.: T: T&R 7" R: T&R 13" B: Bulk	Ex: E:1.60±0.20 F:2.0±0.20	Y

◆ Characteristics Peak to Peak Voltage

The maximum Peak to Peak voltage, as defined below, should not exceed the DC voltage rating of the capacitor



◆ Dimension



Unit : mm [inch]

SIZE	L	W	T (max)	B (min)	BW (min)
1206	3.20±0.30 [.126±.012]	1.60 ± 0.2 [.063±.008]	1.80 [.071]	1.50 [.059]	0.30 [.012]
1210	3.20±0.30 [.126±.012]	2.50 ± 0.2 [.098±.008]	2.60 [.102]	1.60 [.063]	0.30 [.012]

◆ Capacitance Range

Size	Voltage	Capacitance Range																											
		100	120	150	180	220	270	330	390	470	560	680	820	101	121	151	181	221	271	331	391	471	561	681	821	102	122	152	182
1206	500V																												
1206	630V																												
1206	1000V																												
1210	500V																												
1210	630V																												
1210	1000V																												

■ Other dimensions, capacitance values and voltages rating are available. Please contact Holy Stone.