

Type Code

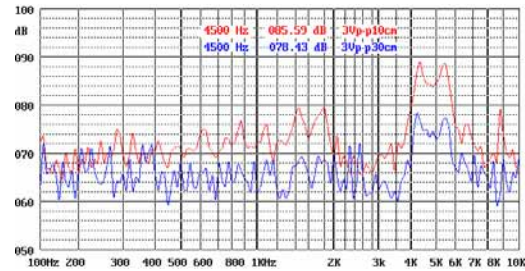
CPT12A03-4.5:

Chinasound Piezo Transducer 12mm diameter, type A(=7.5mm height, spring terminals), 3Vp-p rated voltage – 4.5KHz resonant frequency

Picture



Frequency Response Curve



Technical Terms

Type	CPT12A03-4.5	
Rated Voltage (square wave)	(Vp-p)	3
Operating Voltage (square wave)	(Vp-p)	1~20
Rated Current at 3Vp-p, 4.5KHz	(mA)	1 max.
Capacitance at 100Hz	(pF)	8000 ± 30%
SPL at 3Vp-p square wave, 10cm, 4.5KHz	(dB)	75 min.
Resonant Frequency	(Hz)	4500 ± 500
Operating Temperature	(°C)	-30~+80
Storage Temperature	(°C)	-40~+90
Diaphragm material	Noryl PX9406	
Case material	Ni Alloy Disc N42	
Pin material	Sn plated Brass	
Weight	(g)	0.65

Reliability

Life Test	Operate the part at 3Vp-p in room temperature continuously for 1000 hours.
Operating Temperature	Driving from -30 °C to +80 °C within 30 minutes for 2 cycles
High Temperature	+90 °C+/-2 °C, 120hrs
Low Temperature	-40 °C+/-2 °C, 120hrs
Humidity	+60 °C+/-2 °C, 90~95%RH, 120hrs
Thermal Shock	-30 °C+/-2 °C, 1hr→+20 °C,5min,→+80 °C+/-2 °C, 1hr→+20 °C,5min, 5 cycles
Shock	980m/s ² (=100g) shock for each 3 mutually perpendicular directions to each of 3 times by half sine wave
Vibration	1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular direction for 2 hrs
Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions - upper and side of the part are to be applied.

SPL change: within +/-10dB of the initial value(Recovery:1 to 4 hrs of recovery under the standard condition after the removal from test chamber)

Dimensions (Unit:mm) Tolerance: ± 0.3mm

