

Type Code

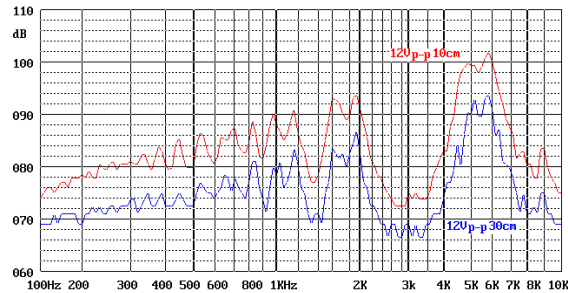
CPT14D12-5.0:

Chinasound Piezo Transducer 14mm diameter, type D(=7.8mm height), 12Vp-p rated voltage – 5.0KHz resonant frequency

Picture



Frequency Response Curve



Technical Terms

Type	CPT14D12-5.0	
Rated Voltage (square wave)	(Vp-p)	12
Operating Voltage (square wave)	(Vp-p)	1~25
Rated Current at 12Vp-p, 4.0KHz	(mA)	3 max.
Capacitance at 100Hz, 1V	(pF)	15000±30%
SPL at 12Vp-p square wave, 10cm, 4.0KHz	(dB)	90 min.
Resonant Frequency	(Hz)	5000±500
Operating Temperature	(°C)	-20~+70
Storage Temperature	(°C)	-30~+80
Weight	(g)	1.0

Reliability

Life Test	Operate the part at 12Vp-p in room temperature continuously for 1000 hours.
Operating Temperature	Driving from -20 °C to +70 °C within 30 minutes for 2 cycles
High Temperature	+80 °C+/-2 °C, 120hrs
Low Temperature	-30 °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	980/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)

