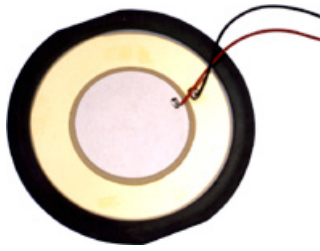


**Type Code**

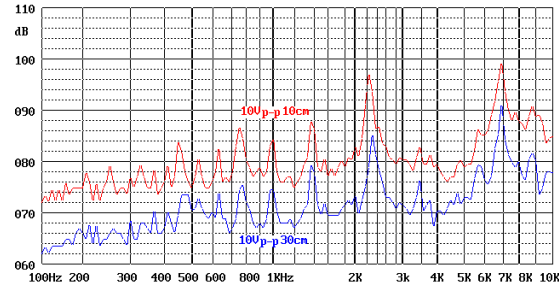
**CPT50A10-1.0-W80:**

Chinasound Piezo Transducer 50mm diameter; type A(=2.0mm height), 10Vp-p rated voltage – 1.0KHz resonant frequency – Wire length 80mm

**Picture**



**Frequency Response Curve**



**Technical Terms**

Type	CPT50A10-1.0-W80	
Rated Voltage (square wave)	(Vp-p)	10
Operating Voltage (square wave)	(Vp-p)	1~30
Rated Current at 10Vp-p, 1.0KHz	(mA)	2 max.
Capacitance at 100Hz, 1V	(pF)	30000±30%
SPL at 10Vp-p square wave, 10cm, 1.0KHz	(dB)	75 min.
Resonant Frequency	(Hz)	1000±500
Operating Temperature	(°C)	-20~+60
Storage Temperature	(°C)	-30~+70
Weight	(g)	3.5

**Reliability**

Life Test	Operate the part at 10Vp-p in room temperature continuously for 1000 hours.
Operating Temperature	Driving from -20 °C to +60 °C within 30 minutes for 2 cycles
High Temperature	+70 °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,→+70 °C+/-2 °C, 1hr→+20 °C,5min, 5 cycles
Shock	980/s <sup>2</sup> (=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.

All specifications must be satisfied after the test (Recovery:2 to 4 hrs of recovery under the standard condition after the removal from test chamber)

**Dimensions (Unit:mm)**

