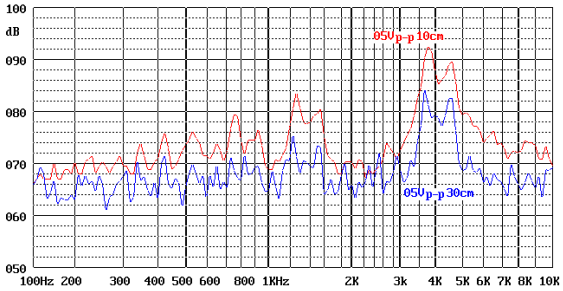
Type Code

CPT17B05-4.0:

Chinasound Piezo Transducer 17mm diameter, type B(=8.5mm height), 5Vp-p rated voltage – 4.0KHz resonant frequency

Picture

Frequency Response Curve



Technical Terms

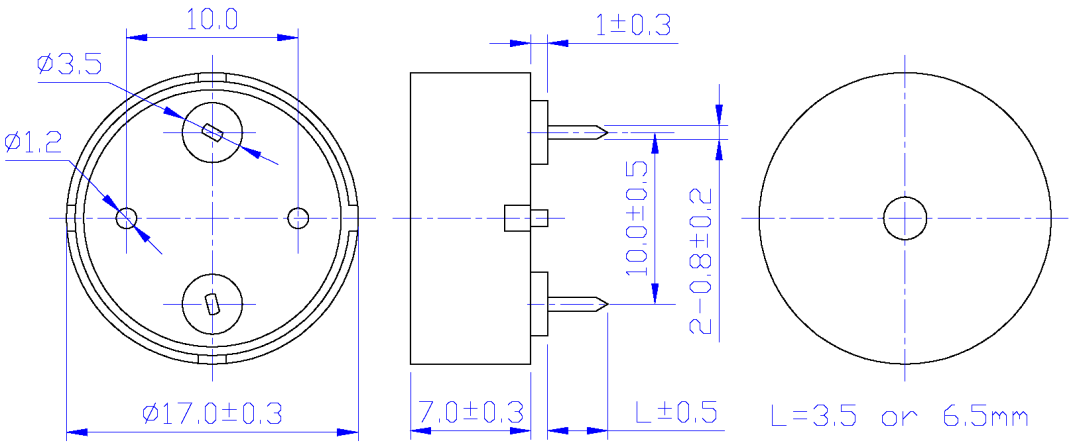
Type		CPT17B05-4.0
Rated Voltage (square wave)	(Vp-p)	5
Opearting Voltage (square wave)	(Vp-p)	1~30
Rated Current at 5Vp-p, 4.0KHz	(mA)	1 max.
Capacitance at 100Hz, 1V	(pF)	10000±30%
SPL at 5Vp-p square wave, 10cm, 4.0KHz	(dB)	82 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-20~+70
Storage Temperature	(°C)	-30~+80
Weight	(g)	1.3

Reliability

Life Test	Operate the part at 5Vp-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)



ChinaSound

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All specifications are subject to change without notice