

Type Code

CPT24ES12-3.0:

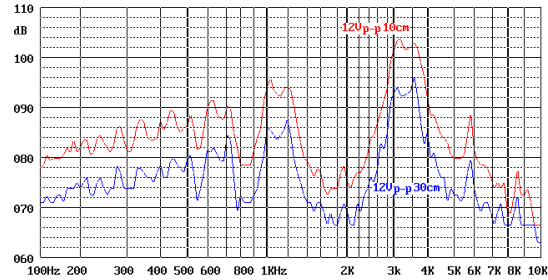
Chinasound Piezo Transducer 24mm diameter, type E(=12mm height), PPS housing, reflowing solderable, 12Vp-p rated voltage – 3.0KHz resonant frequency

Picture



Reflowing solderable

Frequency Response Curve



Technical Terms

Type	CPT24ES12-3.0	
Rated Voltage (square wave)	(Vp-p)	12
Operating Voltage (square wave)	(Vp-p)	1~30
Rated Current at 12Vp-p, 3.0KHz	(mA)	5 max.
Capacitance at 100Hz, 1V	(pF)	25000±30%
SPL at 12Vp-p square wave, 10cm, 3.0KHz	(dB)	90 min.
Resonant Frequency	(Hz)	3000±500
Operating Temperature	(°C)	-30~+95
Storage Temperature	(°C)	-40~+105
Weight	(g)	3.7

Reliability

Life Test	Operate the part at 12Vp-p in room temperature continuously for 1000 hours.
Operating Temperature	Driving from -30 °C to +95 °C within 30 minutes for 2 cycles
High Temperature	+105 °C±2 °C, 120hrs
Low Temperature	-40 °C±2 °C, 120hrs
Humidity	+60 °C±2 °C, 90~95%RH, 120hrs
Thermal Shock	-40 °C±2 °C, 1hr→+20 °C,5min,→+105 °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

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)

