

Type Code

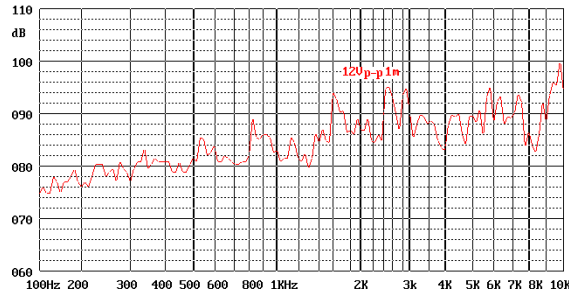
CPT60A12-2.5-C12W45:

Chinasound Piezo Transducer 60mm diameter, type A(=26mm height), 12Vp-p rated voltage – 2.5KHz resonant frequency – C12(=JWT2007H00-2P) Wire length 45mm

Picture



Frequency Response Curve



Technical Terms

| | | |
|--|----------------------------|-------------|
| Type | CPT60A12-2.5-C12W80 | |
| Rated Voltage (square wave) | (Vp-p) | 12 |
| Operating Voltage (square wave) | (Vp-p) | 3~50 |
| Rated Current at 12Vp-p, 2.5KHz | (mA) | 20 max. |
| Capacitance at 100Hz, 1V | (pF) | 250000 ±30% |
| SPL at 12Vp-p square wave, 100cm, 2.5KHz | (dB) | 90 min. |
| Resonant Frequency | (Hz) | 2500 ±500 |
| Operating Temperature | (°C) | -40~+85 |
| Storage Temperature | (°C) | -40~+85 |
| Weight | (g) | 15 |

Reliability

| | |
|--------------------------------------|---|
| Low Temperature | -40 °C ± 2 °C, 72hrs |
| High Temperature | +85 °C ± 2 °C, 540hrs |
| Thermal Shock | Function: 30 sec. on and 10 min. off. / -40 °C ± 2 °C, 1hr → +20 °C, 5min. → +85 °C ± 2 °C, 1hr → +20 °C, 5min, 200 cycles, Rate of temp. change is ± 3 °C/min. |
| Shock | (1) 100g shock for each 3 mutually perpendicular directions to each of 3 times by half sine wave (2) 25g shock for each 3 mutually perpendicular directions to each of 330 times by half sine wave |
| Drop Test | Dropped naturally from 1m height onto the surface of 10mm thick wooden board. Each sample is dropped twice, which allows all 6 falls directions to be represented. |
| Random Vibration & Cycle Temperature | Function: on. / Frequency Range: 10 – 1000Hz Power Spectral Density (PDS): 10-25Hz 4.34m ² /s ³ (0.0434g ² /Hz); 25-1000Hz 0.11m ² /S ³ (0.0011g ² /Hz) Acceleration: 22 m/s ² RMS / Duration: 22hrs in each axis High Temp.: +85 °C; Low Temp.: -40 °C / Temp. Gradient: 2°C/min. Duration in high resp. low temp.: 3hrs / Total Test Time: 66hrs A resonance test shall be done from 10-1000Hz with acceleration 10m/s ² |
| Humidity | +40 °C ± 2.5 °C, 93%RH, 504hrs |
| Temp. & Humidity | Function: Yes. / High Temp.: +65 °C / Low Temp.: -10 °C; RH: 96% / Cycle Time: 24hrs / Number of Cycles: 10 / Total Test Time: 240hrs |

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)

