

Description

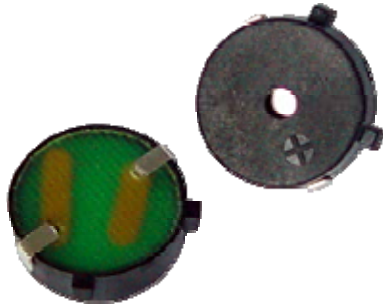
CSPT17D12-4.0F:

Chinasound SMD Piezo Transducer 17mm diameter, type D (=6mm height, Ni Alloy Disc and Ceramic Disc are connected with PCB by Springs), 12Vp-p rated voltage – 4.0KHz resonant frequency, lead Free reflowing solderable and RoHS compliant

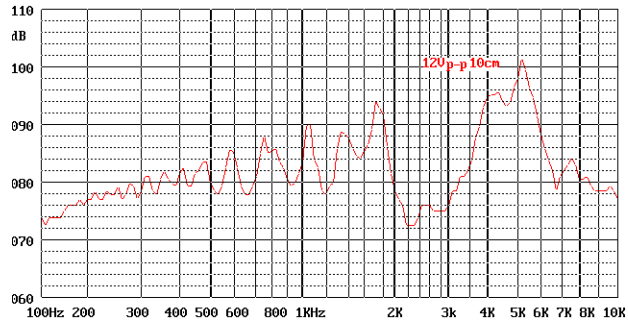
◆ RoHS compliant

- ◆ Reliable Solid State Piezoelectric Technology
- ◆ Corrosion Resistance Diaphragm
- ◆ Flame Retardant Plastic
- ◆ Tape and reel packaging for auto mounting

Picture



Frequency Response Curve



Specification

- Rated Voltage
- Operating Voltage
- Operating Frequency
- Typical Sound Output
- Rated Current
- Capacitance
- Operating Temperature
- Storage Temperature
- Termination
- Construction Materials
- Weight (Typical)
- Reliability

Description
Case
Diaphragm

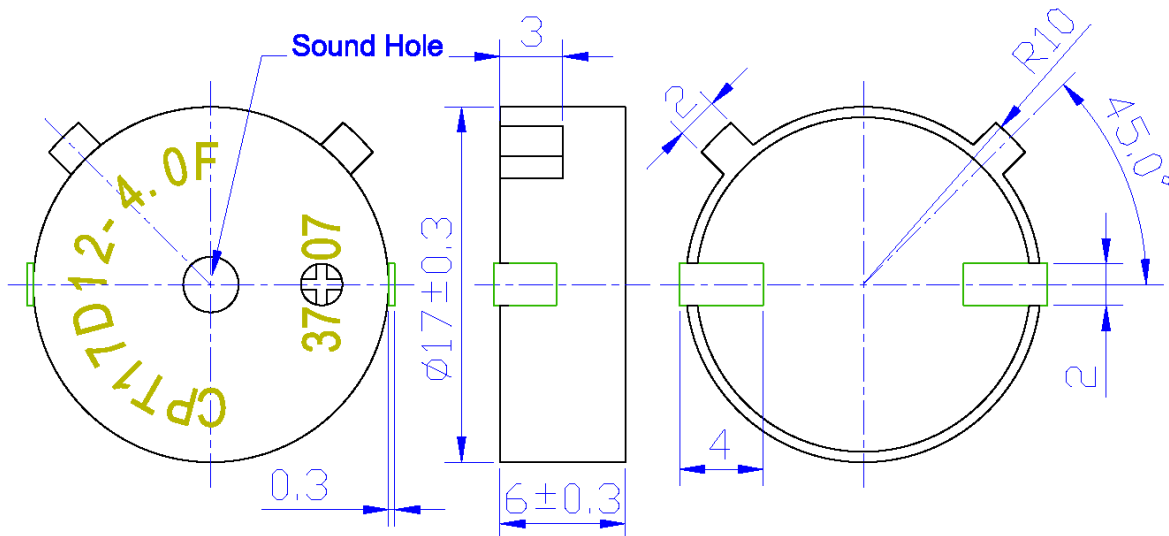
12 Vp-p
1 ~ 25 Vp-p
4000+/-500Hz
90dB min. (97dB typ.)at 12Vp-p 10cm 4.0KHz 25 °C
3mA at 12Vp-p
15000+/-30% pF at 100Hz 1Vrms
-40 °C to +105 °C
-40 °C to +120 °C
2 soldering pads, Sn plated Brass
Plastic, PPS A7-03A
Ni Alloy Disc N42
1.6g
At 12 Vp-p, 1 minutes ON 1 minutes OFF in room temperature continuously for 1000 hours
No function at +120+/-2 °C for 240 hours; Function at +105+/-2 °C for 240 hours
No function at -40+/-2 °C for 240 hours; Function at -40+/-2 °C for 240 hours
+40+/-2 °C, 95+/-25%RH, 240 hours
-30+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr → +105+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr. Temperature
Go up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles
1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours
980m/s² (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each
Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied
Samples put through reflowing soldering over 2 twice
Samples put on PCB with solder paste through reflowing soldering over 1 times

- *Life Test
- *High Temperature
- *Low Temperature
- *Humidity
- *Thermal Shock
- *Vibration
- *Shock
- *Drop Test
- *Soldering Heat Resistance
- **Solderability

Warranty

*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).
**90% min. soldering pads shall be with solder.(except the edge of pad)

Dimensions (Unit:mm)



All specifications are subject to change without notice

Composed by: Guo J/090611 Checked by: Gong YS, Zhu YC/090611 Approved by: Wang Z/090611



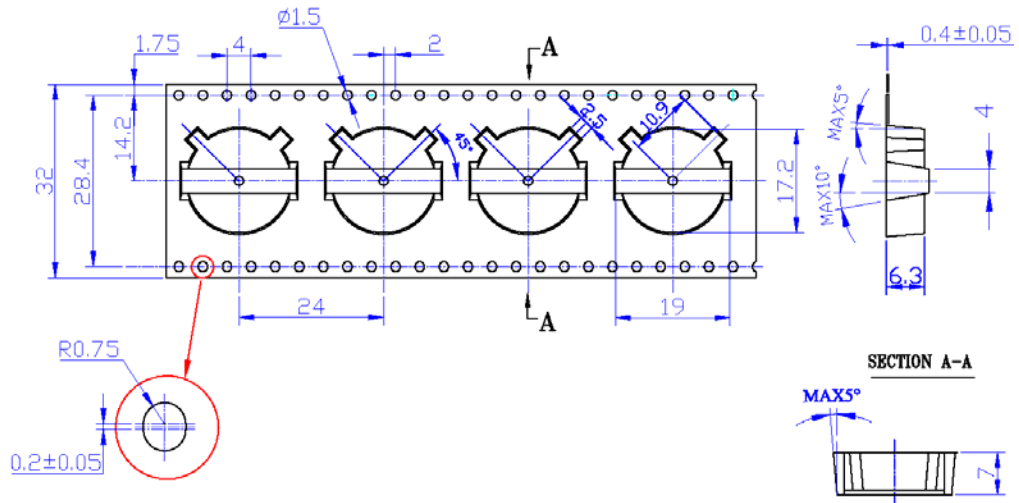
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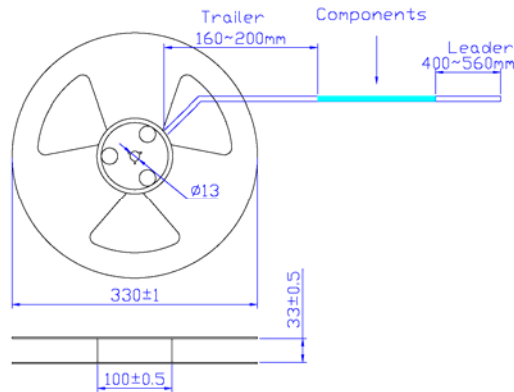
email: csound@jmail.com.cn

Tape & Reel Dimensions (Unit:mm)

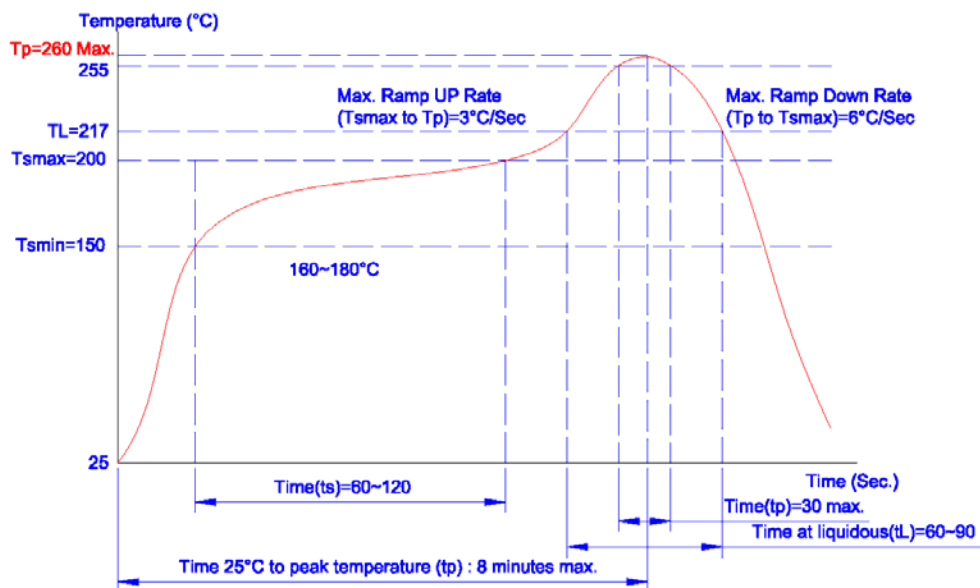


NOTE:

1. 10 sprocket holes pitch cumulative tolerance +/-0.20mm.
2. Carrier camber not to exceed 1 mm in 100 mm.
3. Ao & Bo measured on a place 0.3mm above the bottom of the pocket
4. Ko measured from a plane on the inside bottom of pocket to the top surface of the carrier.
5. All dimensions meet EIA-481-2-A requirements.
6. Component loaded per 13" reel: 400 pcs.



Recommend Reflowing Profile as per IPC/JEDEC J-STD-020D



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Revisions History

Version Number	Description	Name
030530	Original, CSPT17A12-4.0	Guo Jun
060714	Switched to RoHS compliant version, CSPT17A12-4.0F	Guo Jun
060927	The inner structure improved by replacing twisted wires with springs to solve failure due to wires circuit shortage	Guo Jun
090611	To update the Recommend Reflowing Profile as per IPC/JEDEC J-STD-020D after test done	Guo Jun

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