

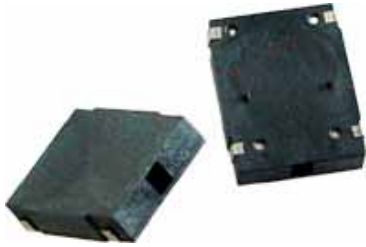
Description

CSET14B05-30-2.7F:

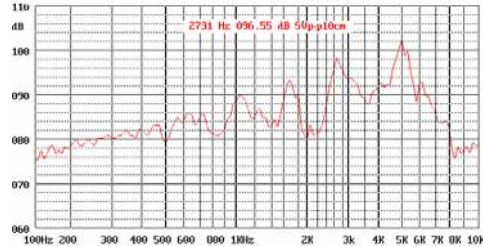
Chinasound SMD Electro-magnetic Transducer 14mm length, type A(=11mm width, 3.0mm height, 2.2x4.2mm sound hole), 5Vo-p rated voltage - 30ohm coil resistance – 2.731KHz resonant frequency, Lead Free reflowing solderable, RoHS compliant

- ◆ RoHS complaint
- ◆ Small size
- ◆ Reflowing Solderable
- ◆ Flame Retardant Plastic
- ◆ Tape and reel packaging for auto mounting

Picture



Characteristics



Specification

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

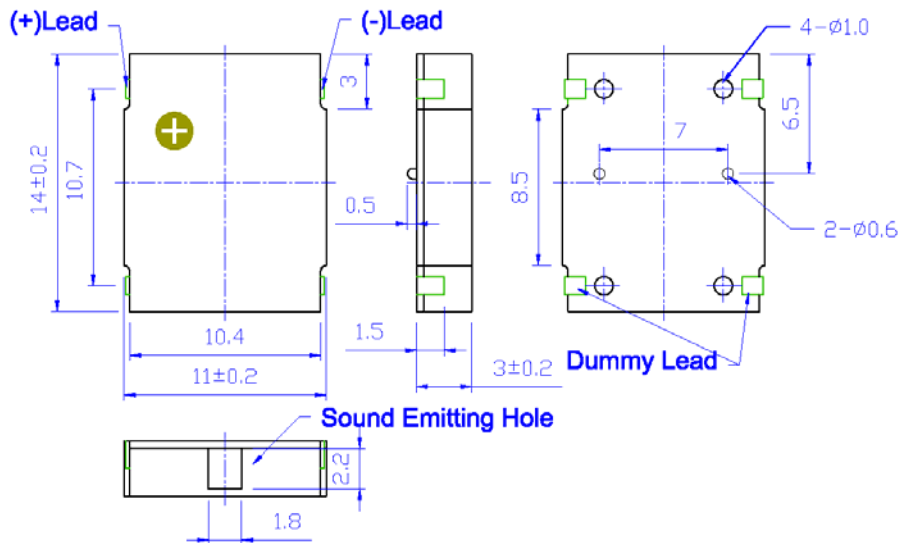
- Description
- Case
- Diaphragm
- *Life Test
- *High Temperature
- *Low Temperature
- *Humidity
- *Thermal Shock
- *Vibration
- *Shock
- *Drop Test
- **Termination Strength
- ***Soldering Heat Resistance
- ****Solderability

5 Vo-p square wave, 1/2 duty square wave
 3-7 Vo-p square wave, 1/2 duty square wave
 80 mA max. at 3 Vo-p square wave, 1/2 duty square wave, 2731Hz
 30+/-3 ohm
 90dB min. (Typ. 95 dB) at 5 Vo-p square wave, 1/2 duty square wave, 10cm, 2731Hz
 2731 +/-500Hz
 -30 °C to +85 °C
 -40 °C to +90 °C
 4 soldering pads, Sn plated Brass
 Plastic, LCP Vectra E130i
 Ni Alloy Disc N50
 1.0 g
 At 3 Vo-p in room temperature continuously for 1000 hours
 no function at +90 °C ± 2 for 96 hours, function at +85 °C ± 2 for 96 hours,
 no function at -40 °C ± 2 for 96 hours, function at -30 °C ± 2 for 96 hours,
 25 °C ± 2 °C, 90-95%RH, 5hr→up to 55 °C ± 2 °C, 90-95%RH, 0.5hr →55 °C ± 2 °C,
 90-95%RH, 5hr→down to 25 °C ± 2 °C, 90-95%RH, 0.5hr, 10 cycles
 -40°C ± 2 °C, 30min→+20 °C, 15min, →+85°C ± 2 °C, 30min→+20 °C, 15min, 5 cycles
 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular direction for 2 hrs
 98m/s² (=10g) 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
 Maximum of 9.8N (1kgs) for 10 seconds load pull test
 Samples put through reflowing soldering oven 2 twice
 Samples put through reflowing soldering oven 1 times

Warranty

For a period of one (1) year from date of manufacture under normal operations
 * Being placed for 4hours at +25°C, part shall be measured. The value of frequency and current consumption shall be in ± 10% compared with initial value. The capacitance should be in ± 20% compared with initial value. The SPL shall be in ± 10dB compared with initial value.
 ** No damage and cut off ***No interference in operation ****90% min. soldering pads shall be with solder.(except the edge of pad)

Dimensions (Unit: mm)

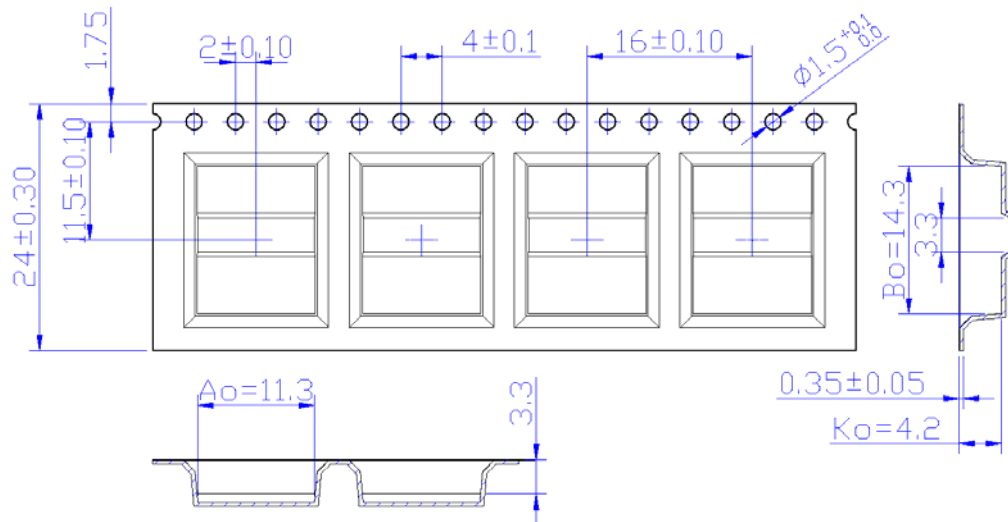


All specifications are subject to change without notice



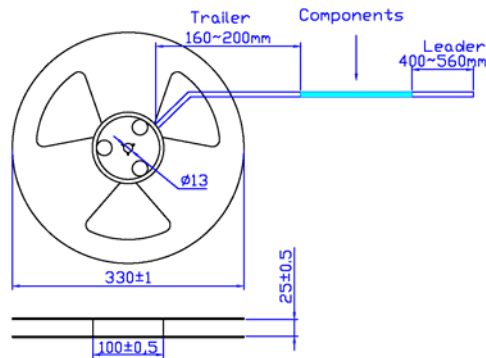
CHANGZHOU CHINASOUND ELECTRONICS CO., LTD.
 Tel: +86-519-6182518, 6182517, 6182516 Fax: +86-519-6182519
<http://www.chinasound.com> email: csound@jssmail.com.cn

Tape & Reel Dimensions (Unit:mm)

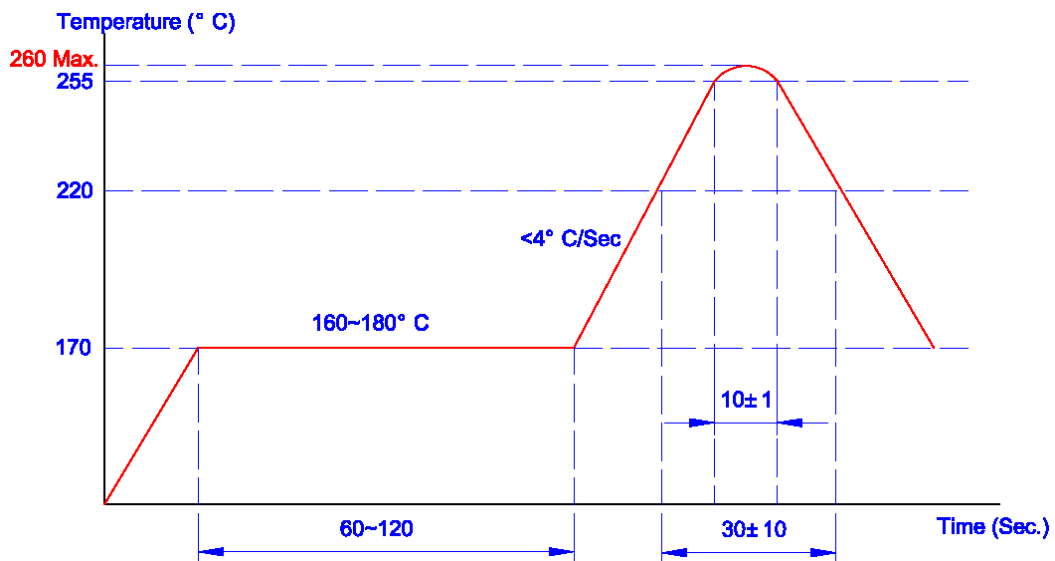


NOTE:

1. 10 sprocket holes pitch cumulative tolerance ± 0.20 mm.
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. Material: Black Conductive Polystyrene Alloy.
7. Component loaded per 13" reel: 1000pcs.



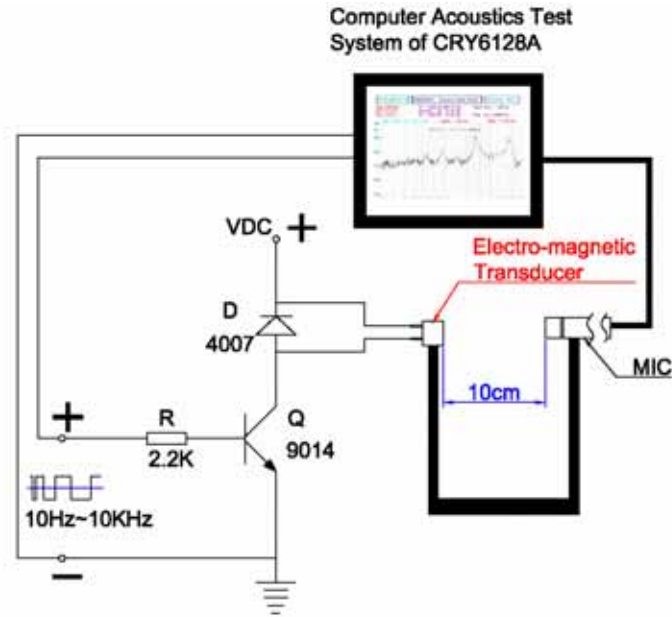
Recommend Reflowing Profile



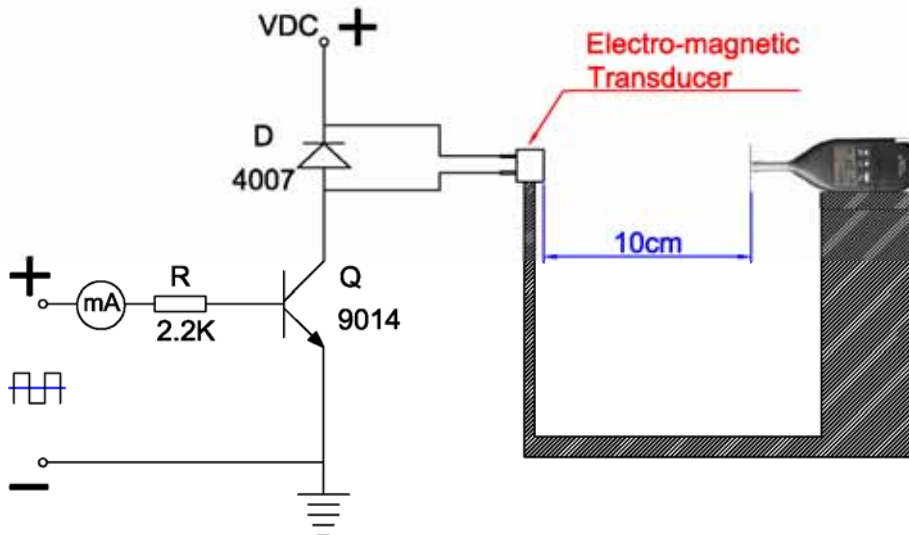
All specifications are subject to change without notice

Test Methods

SPL1: Tested by Computer Acoustics Test System of CRY6128A



SPL2: Tested by Sound level meter B&K2240



All specifications are subject to change without notice