

**Description**

**CSEB13A05-2.3-I20-1F:**

Chinasound SMD Electro-magnetic Buzzer 12.8mm (<13mm) diameter, type A(=10mm height), 5)VDC rated voltage - 2.3KHz resonant frequency - I<=20mA) - 1(sound hole sealed with washable label), lead Free reflowing solderable, RoHS compliant

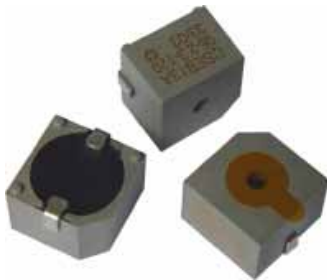
◆ RoHS compliant

◆ Small size

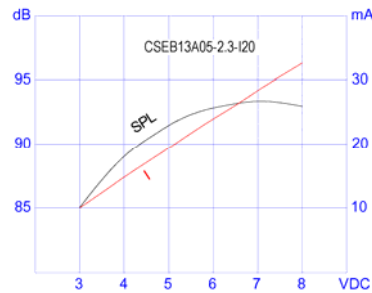
◆ Flame Retardant Plastic

◆ Lead Free Reflowing Solderable

**Picture**



**Characteristics**



**Specification**

Rated Voltage

5 VDC

Operating Voltage

4 ~ 7 VDC

Rated Current

20 mA max. at 3 VDC

Sound Output

85dB min. at 12 VDC, 10cm

Operating Frequency

2300+/-300Hz

Operating Temperature

-30 °C to +85 °C

Storage Temperature

-40 °C to +90 °C

Termination

Description

2 soldering pins, Sn plated Brass

Construction Materials

Termination Strength

Maximum of 9.8N load pull test, applied to each terminal in axial direction for 10 seconds

Case

Plastic, PPS A7-03A

Diaphragm

Ni Alloy Disc N50

Weight (Typical)

2.9 g

Reliability

\*Life Test

At 3 VDC in room temperature continuously for 1000 hours

\*High Temperature

no function at +90+/-2 °C for 96 hours, function at +85+/-2 °C for 96 hours,

\*Low Temperature

no function at -40+/-2 °C for 96 hours, function at -30+/-2 °C for 96 hours,

\*Humidity

25+/-2 °C, 90-95%RH, 5hr→up to 55+/-2 °C, 90-95%RH, 0.5hr →55+/-2 °C, 90-95%RH, 5hr→down to 25+/-2 °C, 90-95%RH, 0.5hr, 10 cycles

\*Thermal Shock

-40+/-2 °C, 30min→+20 °C, 15min, →+85+/-2 °C, 30min→+20 °C, 15min, 5 cycles

\*Vibration

1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular direction for 2 hrs

\*Shock

98m/s<sup>2</sup> (=10g) shock for each mutually perpendicular directions, half sine wave, 3 times each

\*Drop Test

Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied

\*Soldering Heat Resistance

Samples put through reflowing soldering oven 2 twice

\*\*Solderability

Samples put on PCB with solder paste through reflowing soldering oven 1 times

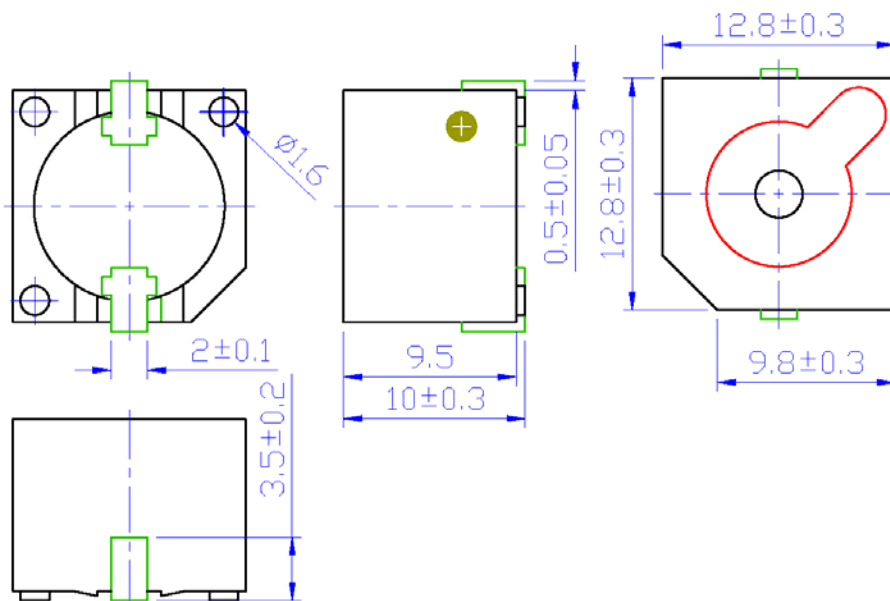
For a period of one (1) year from date of manufacture under normal operations

**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



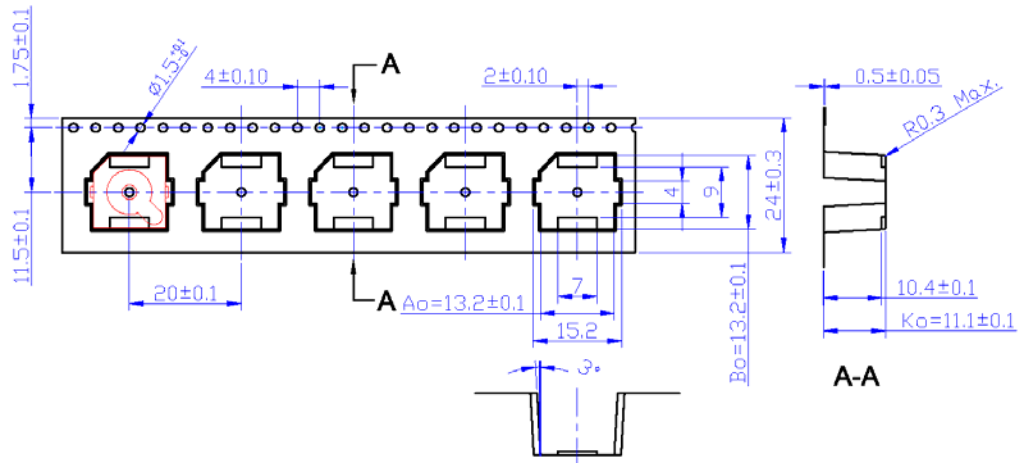
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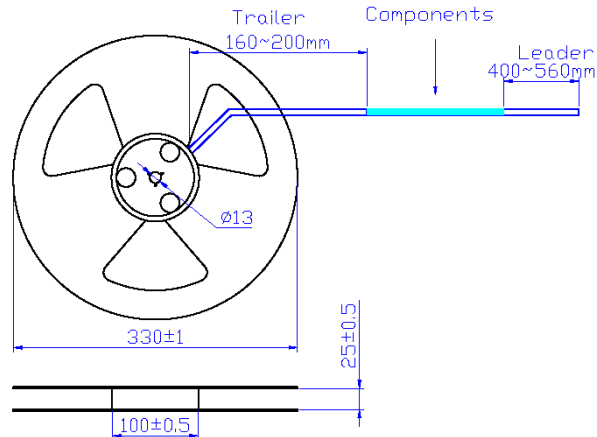
email: csound@jssmail.com.cn

Tape & Reel Dimensions (Unit:mm)

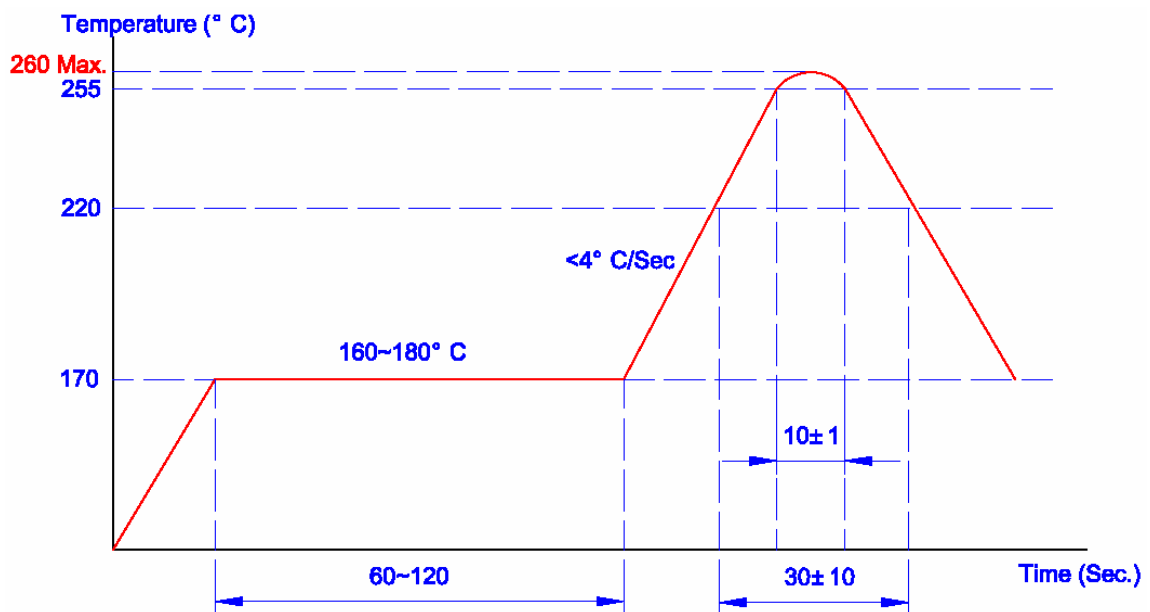


NOTE:

1. 10 sprocket hole pitch cumulative tolerance  $\pm 0.20$ mm.
2. Carrier camber not to exceed 1 mm in 100 mm.
3. A0 and B0 measured on a plane on a place 0.30mm above the bottom of the pocket.
4. K0 measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
5. All dimensions meet EIA-481-2-A requirements.
6. Component load per 13" Reel: 300 pcs.



Recommend Reflowing Profile



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