

**Description**

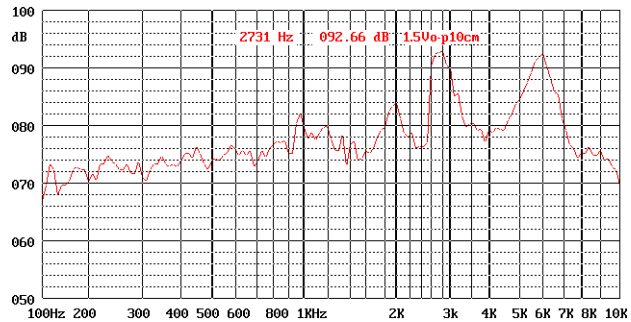
Chinasound SMD Electro-magnetic Transducer 9mm diameter, type B(=4.5mm height), 1.5Vo-p rated voltage – 5.5ohm coil resistance – 2.731KHz resonant frequency, Lead Free reflowing solderable, RoHS compliant

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

**Picture**



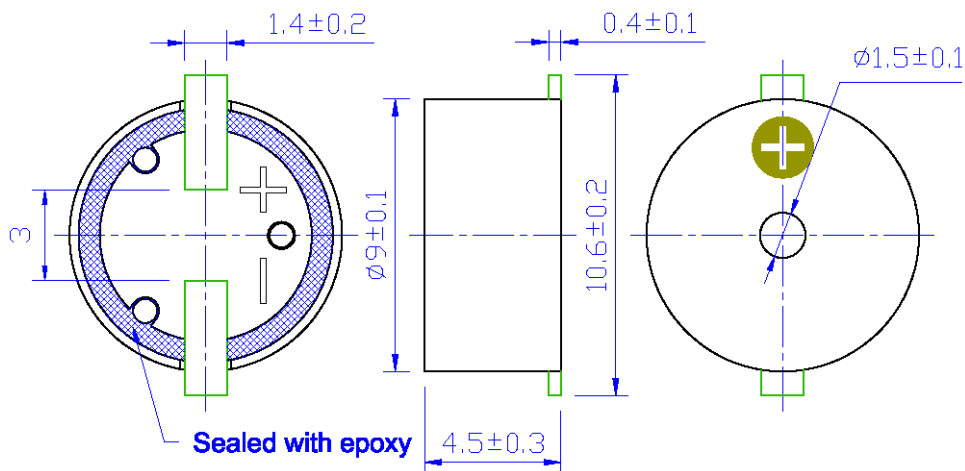
**Frequency Response Curve**



**Specification**

<b>Rated Voltage</b>	1.5 Vo-p square wave, 1/2 duty square wave
<b>Operating Voltage</b>	1~2 Vo-p square wave, 1/2 duty square wave
<b>Rated Current</b>	80 mA max. at 1.5 Vo-p square wave, 1/2 duty square wave, 2731Hz
<b>Coil Resistance</b>	5.5+/-2 ohm
<b>Sound Output</b>	85dB min. at 1.5 Vo-p square wave, 1/2 duty square wave, 10cm, 2731Hz
<b>Operating Frequency</b>	2731+/-500Hz
<b>Operating Temperature</b>	-30°C to +85°C
<b>Storage Temperature</b>	-40°C to +90°C
<b>Termination</b>	2 soldering pads, PCB plated Gold
<b>Construction Materials</b>	Case Plastic, LCP Vectra E130i Diaphragm Ni Alloy Disc N50
<b>Weight (Typical)</b>	0.6 g
<b>Reliability</b>	At 1.5 Vo-p in room temperature continuously for 1000 hours no function at +90+/-2°C for 96 hours, function at +85+/-2°C for 96 hours, no function at -40+/-2°C for 96 hours, function at -30+/-2°C for 96 hours, 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 -40+/-2°C, 30min→+20°C,15min,→+85+/-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/s <sup>2</sup> (=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
	<b>*Life Test</b>
	<b>*High Temperature</b>
	<b>*Low Temperature</b>
	<b>*Humidity</b>
	<b>*Thermal Shock</b>
	<b>*Vibration</b>
	<b>*Shock</b>
	<b>*Drop Test</b>
	<b>*Soldering Heat Resistance</b>
	<b>**Solderability</b>
<b>Warranty</b>	Samples put through reflowing soldering oven 2 times 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
	* 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/090624 Checked by: Gong YS, Zhu YC/090624 Approved by: Wang Z/090624



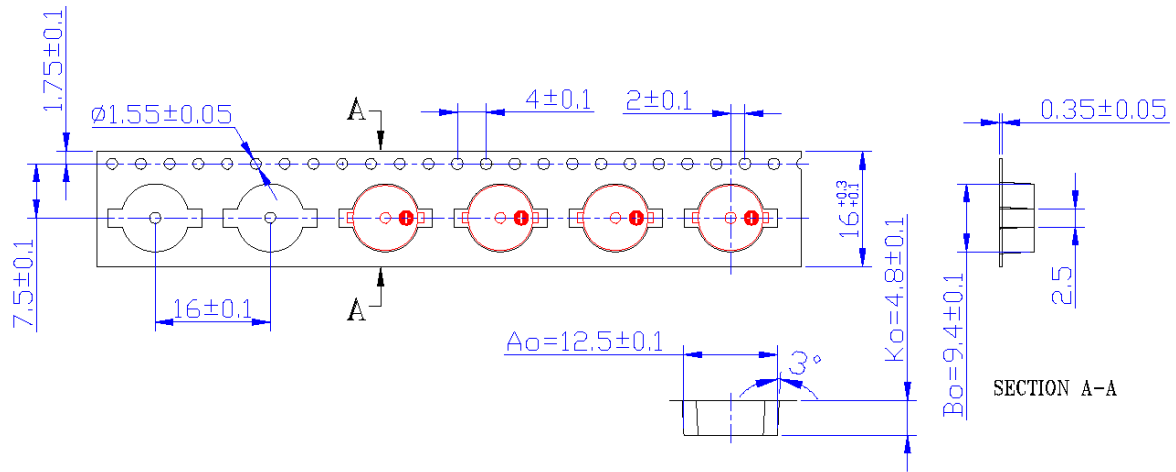
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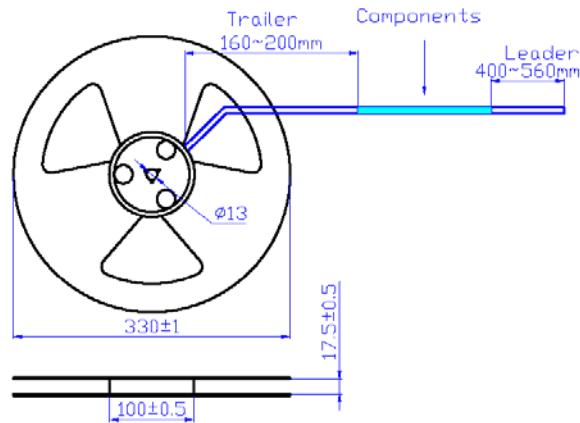
email: csound@jsmail.com.cn

**Tape & Reel Dimensions** (Unit:mm)

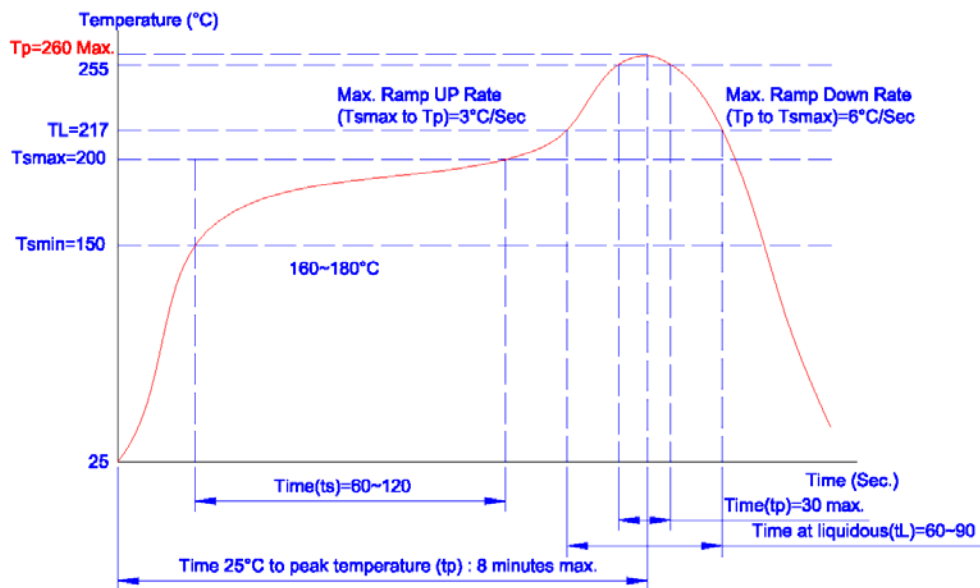


**NOTE:**

1. 10 sprocket hole pitch cumulative tolerance  $\pm 0.20$ mm.
2. Carrier camber is 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: 850 pcs.



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



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**Revision History**

Version Number	Description	Name
050629	Original, CSET09B1.5-5.5--2.7F	Guo Jun
090624	To add Recommend reflowing Profile as per J-STD-020D	Guo Jun

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