

**Description**

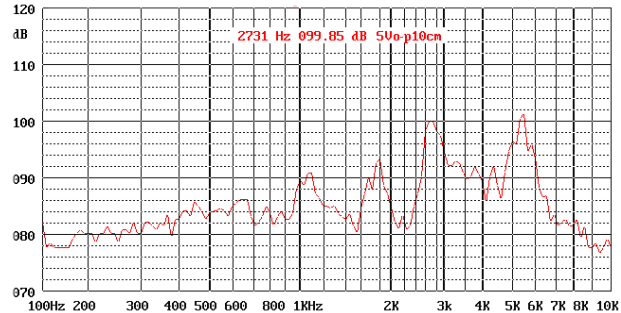
Chinasound SMD Electro-magnetic Transducer 9mm diameter, type A(=4.0mm height), 5Vo-p rated voltage - 30ohm coil resistance - 2.731KHz resonant frequency, Lead Free reflowing solderable, RoHS compliant

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

**Picture**



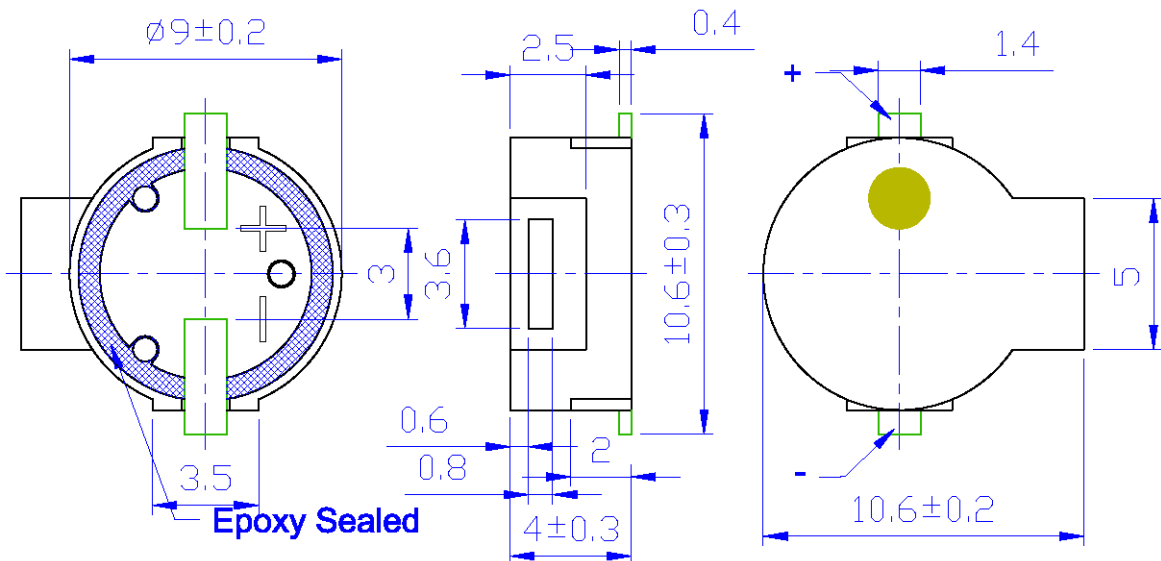
**Frequency Response Curve**



**Specification**

<b>Rated Voltage</b>	5 Vo-p square wave, 1/2 duty square wave
<b>Operating Voltage</b>	4-7 Vo-p square wave, 1/2 duty square wave
<b>Rated Current</b>	100 mA max. at 5 Vo-p square wave, 1/2 duty square wave, 2731Hz
<b>Coil Resistance</b>	30+/-4 ohm
<b>Sound Output</b>	90dB min. ( Typ. 98 dB ) at 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>	Plastic, LCP Vectra E130i Ni Alloy Disc N50
<b>Weight (Typical)</b>	0.6 g
<b>Reliability</b>	At 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/091124 Checked by: Gong YS, Zhu YC/091124 Approved by: Wang Z/091124



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**Revision History**

Version Number	Description	Name
061005	Original RoHS compliant version, CSET09A05-30-2.7F	Guo Jun
091124	To add Recommend reflowing Profile as per J-STD-020D	Guo Jun

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