

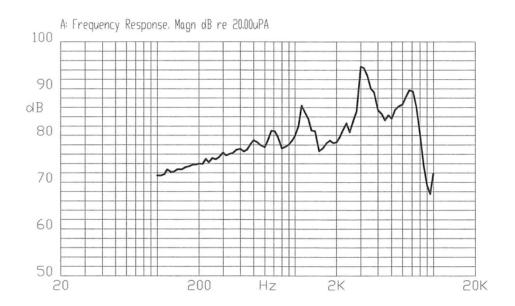
Description: magnetic buzzer

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Specifications		
Rated voltage	3.6 Vo-p	Vo-p
Operating voltage	3.0 - 5.0 Vo-p	_ ↓ ov
Mean current	80 mA max.	Applying rated voltage, 3100 Hz
Coil resistance	20 ±3 Ω	square wave, ½ duty
Sound output	Min. 90 (Typical 97) dBA	Distance at 5cm (A-weight free air). Applying rated voltage of 3100 Hz, square wave, $\frac{1}{2}$ duty.
Rated frequency	3100 Hz	
Operating tempurature	-30 ~ +70° C	
Storage tempurature	-40 ~ +85° C	
Dimensions	L8.5 x W8.5 x H3.2 mm	See attached drawing
Weight	0.7 g	
Material	L.C.P. (White)	
Terminal	SMD type (Au Plating)	See attached drawing
RoHS	yes	<u> </u>

Frequency Response Curve



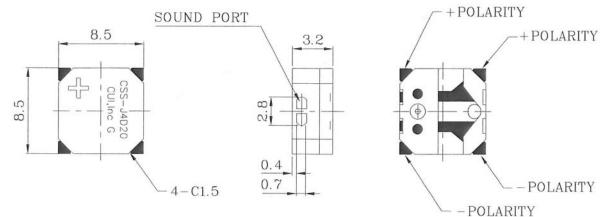


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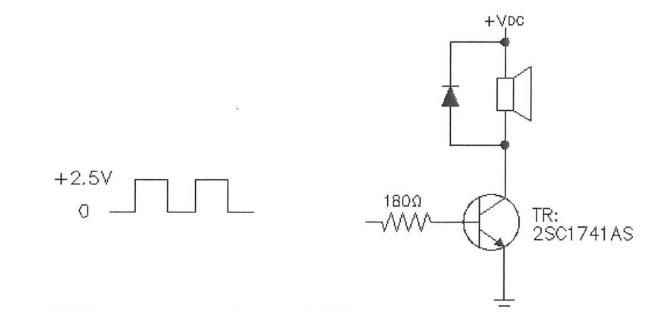
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Appearance Drawing

Tolerance: ±0.5



Measurement Method





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Mechanical Characteristics

Item	Test Condition	Evaluation Standard	
Solderability	Lead terminals are immersed in solder bath	95% surface of lead pads must	
	of +270 ±5°C for 3 ±1 seconds.	be covered with fresh solder.	
Soldering Heat Resistance	The product follows the reflow temperature No in interference in operation		
	curve to test its reflow thermo stability.		
Terminal Mechanical Strength	Lead pads shall be soldered onto the pc	e soldered onto the pc No damage or cutting off.	
	board and the force of 9.8 N (1.0 kg) shall		
	be applied behind the part for 10 seconds.		
Vibration	The buzzer will be measured after applying		
	a vibration amplitude of 1.5 mm with 10 to	After the test, the part shall meet	
	55 Hz band of vibration frequency to each of specifications without any		
	the 3 perpendicular directions for 2 hours.	damage to the appearance and	
Drop Test	The part is to be dropped from a height of	the SPL should be within ±10	
	75 cm onto a 40 mm thick wooden board 3 dBA of the initial SPL.		
	times in 3 axis (X, Y, Z) for a total of 9 drops.		

Environment Test

Item	m Test Condition	
High temp. test	The part will be subjected to +85°C for 96 hours.	
Low temp. test	The part will be subjected to -40°C for 96 hours	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of:	
	+85°C -40°C 30 min. 30 min. 60 min.	After the test, the part shall meet specifications without any damage to the appearance or performance and the SPL should
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will last for 24 hours and consist of:	be within ±10 dBA of the initial SPL.



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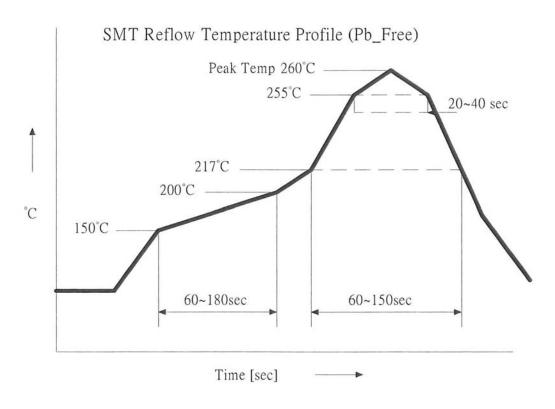
Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	
	The part will be subjected to 72 hours at +55°C with 3.6 V, 3100 Hz applied.	After the test, the part shall meet specifications without any damage to the appearance. After
	 Intermittent life test: A duty cycle of 1 minute on, 1 minute off, a minimum of 10,000 times at room temp (+25±10°C) with 3.6 V, 3100 Hz applied. 	4 hours at +25°C, the SPL should be within ± 10 dBA of the initial SPL.

Test Conditions

Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Tempurature: +25±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar

Recommended Temperature Profile for Reflow Oven

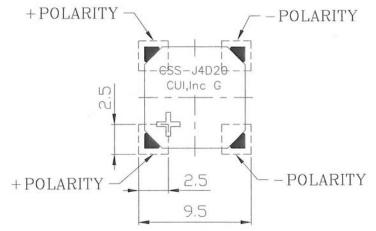




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Recommended Land Pattern



Packaging

