

Description: magnetic buzzer

Date: 6/12/2006 Unit: mm

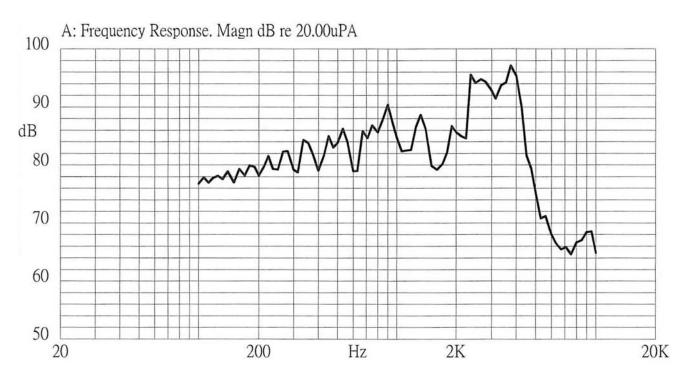
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Specifications

Rated voltage	12.0 Vo-p	Vo-p
Operating voltage	6.0 - 16.0 Vo-p	_ + ov
Mean current	40 mA max.	Applying rated voltage, 2400 Hz square wave, ½ duty
Coil resistance	140 ±21 Ohm	<u> </u>
Sound output	Min. 85 (Typical 92) dBA	Distance at 10cm (A-weight free air). Applying rated voltage of 2400 Hz, square wave, 1/2 duty.
Rated frequency	2,400 Hz	
Operating tempurature	-20 ~ +60° C	
Storage tempurature	-30 ~ +70° C	
Dimensions	ø12.0 x H9.5 mm	
Weight	1.6 g	
Material	PBT (Black)	
Terminal	Pin type (Au Plating)	
RoHS	yes	

Frequency Response Curve



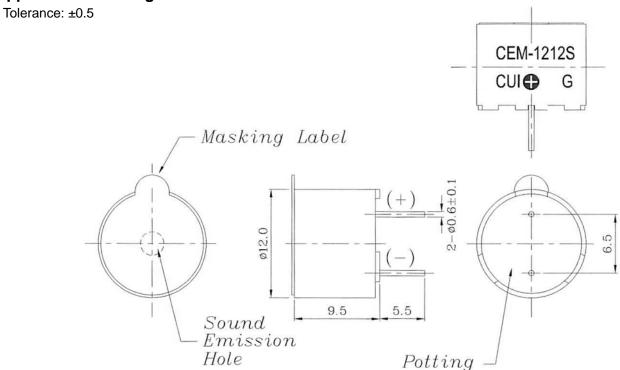
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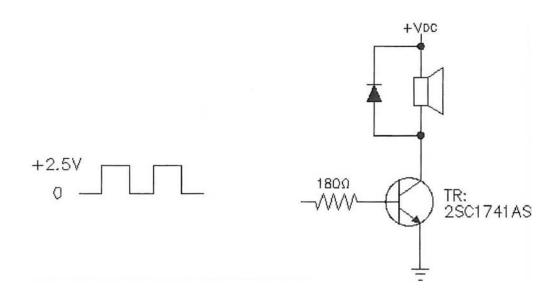
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Appearance Drawing



Measurement Method





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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in rosin for	90% min. of the lead terminals
	5 seconds and then in a solder bath of	must be wet with fresh solder.
	+270 ±5°C for 3 ±1 seconds.	(Except the edge of the terminal)
Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from	
	the buzzer's body in a solder bath of	No in interference in operation.
	+260 ±5°C for 3 ±1 seconds.	
Terminal Mechanical Strength	The force of 9.8 N (1.0 kg) will be applied	
	to each terminal in each axial direction for No damage or cutting off.	
	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 will 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	Test Condition	Evaluation Standard	
High temp. test	The part will be subjected to +70°C for 96 hours.		
Low temp. test	The part will be subjected to -30°C for 96 hours		
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of: +70°C		
	-30°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 consist of: +70°C -24hours -24hours	be within ±10 dBA of the initial SPL.	



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Item	Test Condition	Evaluation Standard
Operating (Life Test)	Continuous life test:	
	The part will be subjected to 72 hours at +45°C with 12 V, 2400 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 minutes off, a minimum of 10,000 times at room temp (+25±10°C) with 12 V, 2400 Hz applied. 	4 hours at +25°C, the SPL should be within ±10 dBA of the initial SPL.

Test Conditions

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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

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Packaging

