

Description: magnetic buzzer

Date: 6/12/2006 Unit: mm

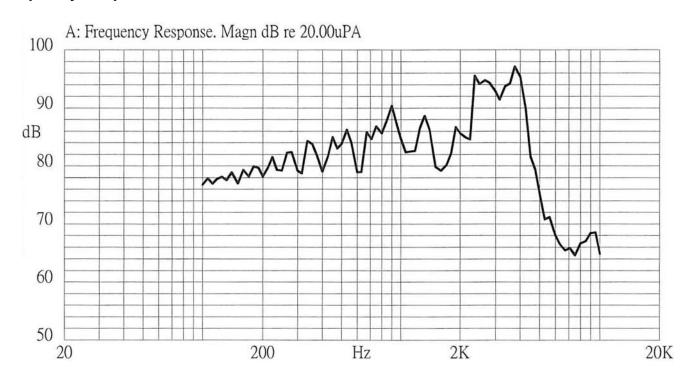
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Specifications

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



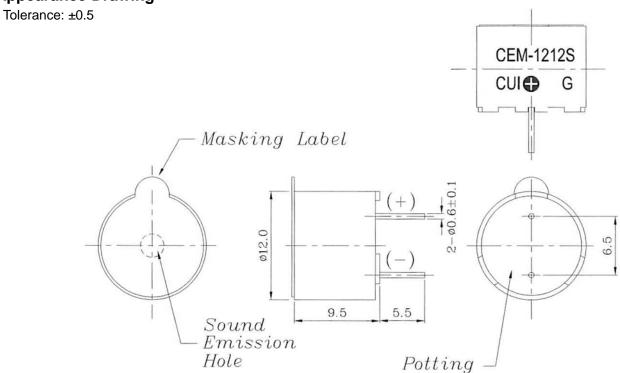


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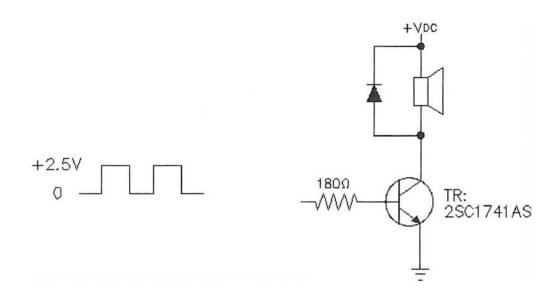
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Appearance Drawing



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	After the test, the part shall meet specifications without any damage to the appearance or performance and the SPL should	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of: +70°C 30 min. 30 min. 60 min.		
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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Reliability Tests

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	
	The part will be subjected to 72 hours at +45°C	After the test, the part shall meet
	with 12 V, 2400 Hz applied.	specifications without any damage to the appearance. After
	2. Intermittent life test:	4 hours at +25°C, the SPL
	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.	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

