

Description: magnetic buzzer

Date: 9/06/2006

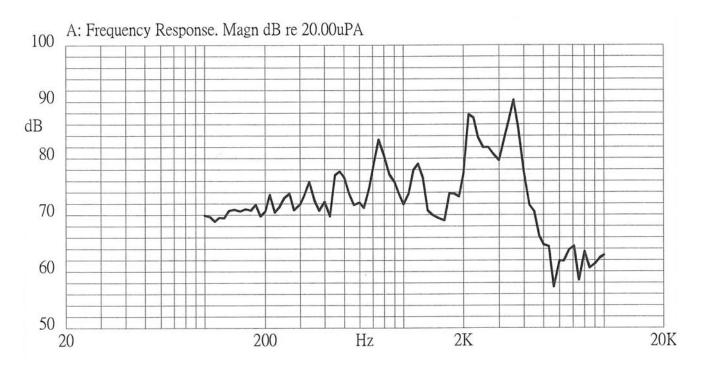
Unit: mm Page No: 1 of 5



Specifications

Rated voltage	1.5 Vo-p	Vo-p
Operating voltage	1.0 - 3.0 Vo-p	_ + ov
Mean current	40 mA max.	Applying rated voltage, 2400 Hz square wave, ½ duty
Coil resistance	16 ±3 Ω	Square wave, 72 daty
Sound output	Min. 80 (Typical 88) 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 temperature	-20 ~ +60° C	
Storage temperature	-30 ~ +70° C	
Dimensions	ø12.0 x H9.5 mm	See attached drawing
Weight	1.6 g	
Material	PBT (Black)	
Terminal	Pin type (Au Plating)	See attached drawing
RoHS	yes	

Frequency Response Curve



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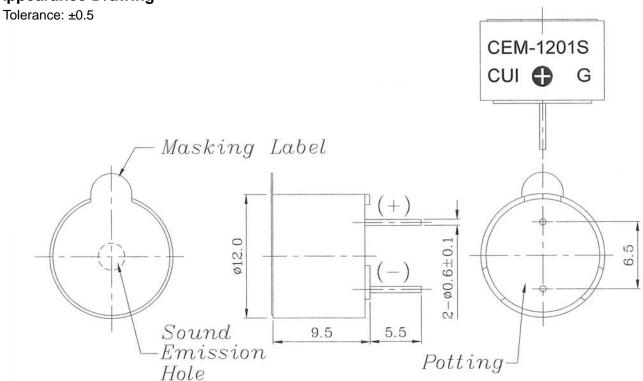


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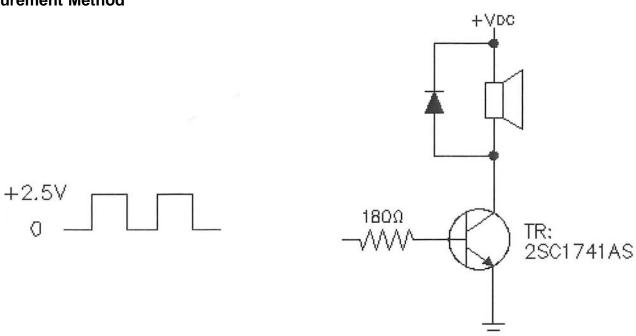
Date: 9/06/2006

Unit: mm
Page No: 2 of 5

Appearance Drawing



Measurement Method



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Unit: mm Page No: 3 of 5

Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in rosin for 5	90% surface of lead terminals
	seconds and then immersed in solder bath	should be wet with solder.
	of 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 260 ±5°C	No in interference in operation.
	for 3 ±1 seconds.	
Terminal Mechanical Strength	Apply force of 9.8 N (1.0 kg) to the terminal for	No damage or cutting off.
_	10 seconds in each axial direction.	
Vibration	The buzzer will be measured after applying	After the test, the part should
	a vibration amplitude of 1.5mm with 10 to 55 Hz	meet specifications without any
	band of vibration frequency to each of the 3	damage to the appearance and
	perpendicular directions for 2 hours.	performance. The SPL should be
Drop Test	The part is to be dropped from a height of	within ±10 dBA when compared
	75 cm onto a 40 mm thick wooden board 3	to the initial measurement.
	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 mee specifications without any damage to the appearance except SPL. After 4 hours at +25°C, the SPL should be within
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of: +70°C a,b:90~98%RH c:80~98%RH c:80~98%RH	±10 dBA of the initial SPL.

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Unit: mm Page No: 4 of 5

Reliability Tests

Item	Test Condition	Evaluation Standard
Operating (Life Test)	Continuous life test:	
	The part will be subjected to 72 hours at 45°C with 1.5 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 minute off, a minimum of 10,000 times at room temp. (+25±10°C) with 1.5 V, 2400 Hz applied. 	4 hours at +25°C, the SPL should be within ±10 dBA of the initial SPL.

Test Conditions

Standard Test Condition **Judgement Test Condition** a) Tempurature: +5 ~ +35°C

b) Humidity: 45 - 85% a) Tempurature: +25±2°C

c) Pressure: 860 - 1060 mbar

b) Humidity: 60 - 70% c) Pressure: 860 - 1060 mbar

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Packaging

