

**Description:** magnetic buzzer

Date: 9/06/2006 Unit: mm

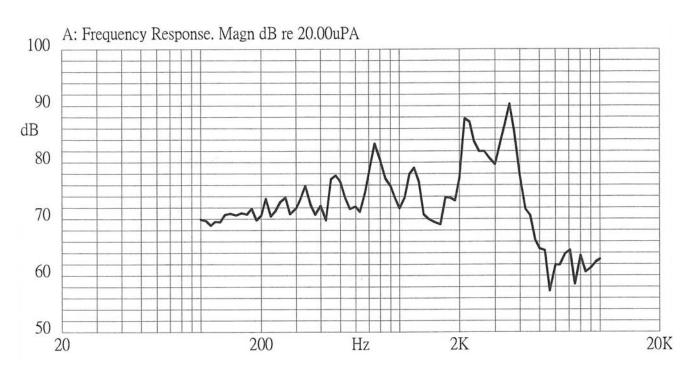
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## **Specifications**

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		
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**

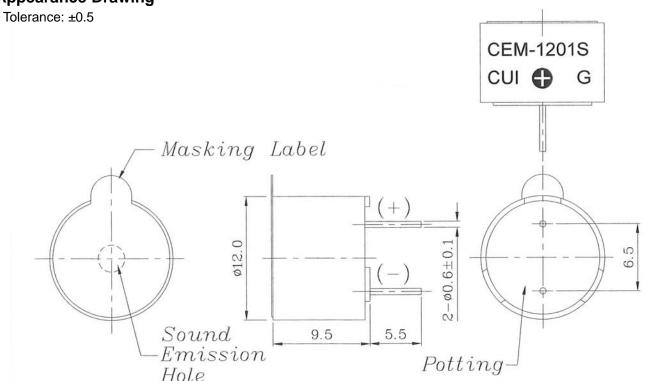


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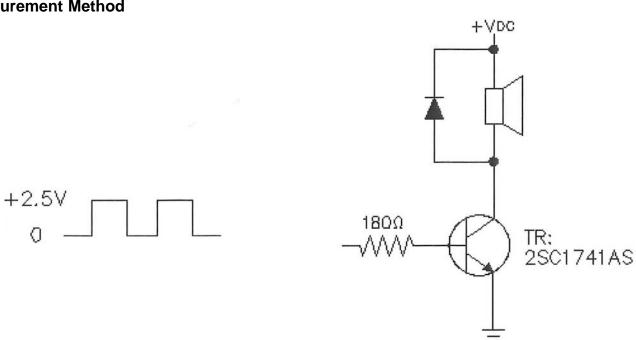
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#### **Appearance Drawing**



## **Measurement Method**



Phone: 800.275.4899 Fax: 503.612.2381 20050 SW 112th Ave. Tualatin, OR 97062 www.cui.com



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#### **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 meet 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	±10 dBA of the initial SPL.	
	+25°C		



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# **Reliability Tests**

Item	Test Condition	<b>Evaluation Standard</b>
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
	<ol> <li>Intermittent life test:</li> <li>A duty cycle of 1 minute on, 1 minute off, a minimum of 10,000 times at room temp.</li> <li>(+25±10°C) with 1.5 V, 2400 Hz applied.</li> </ol>	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

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# **Packaging**

