

**Description: magnetic buzzer** 

Date: 9/08/2006

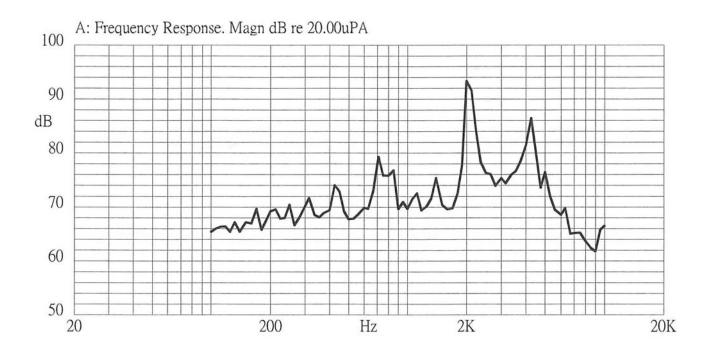
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# **Specifications**

Rated voltage	1.5 Vo-p	Vo-p ★ ☐ ☐
Operating voltage	1.0 - 3.0 Vo-p	_ <b>↓</b> ov
Mean current	20 mA max.	Applying rated voltage, 2048 Hz
		square wave, ½ duty
Coil resistance	30 ±4.5 Ω	
Coil impedance	105 Ω	See impedance measurements graph
Sound output	Min. 80 (Typical 88) dBA	Distance at 10cm (A-weight free air).
		Applying rated voltage of 2048 Hz, square
		wave, ½ duty.
Rated frequency	2,048 Hz	
Operating temperature	-20 ~ +60° C	
Storage temperature	-30 ~ +70° C	
Dimensions	ø16.0 x H14.0 mm	See attached drawing
Weight	4.6 g	
Material	PPO (Black)	
Terminal	Pin type (Au Plating)	See attached drawing
RoHS	yes	

## **Frequency Response Curve**



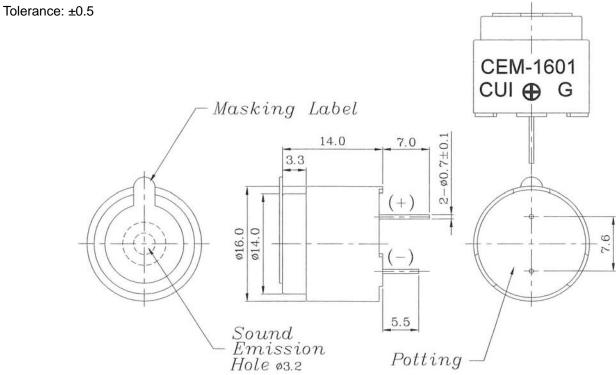
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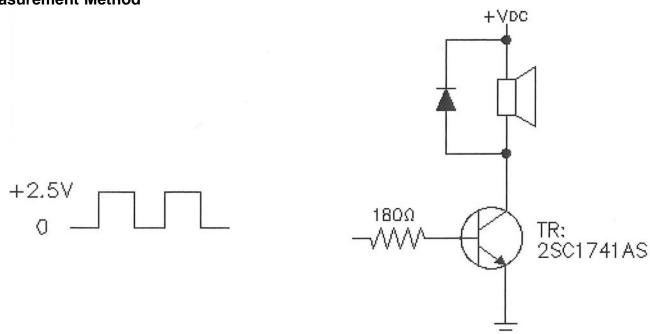
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### **Appearance Drawing**



### **Measurement Method**





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#### **Mechanical Characteristics**

Item	Test Condition	<b>Evaluation Standard</b>	
Solderability	Lead terminals are immersed in rosin for 5	90% min. lead terminals should	
	seconds and then immersed in solder bath	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 1.5 mm		
	from the buzzer's body in solder bath of	No in interference in operation.	
	260 ±5°C for 3 ±1 seconds.		
Terminal Mechanical Strength	Apply a force of 9.8 N (1.0 kg) to each terminal	No damage or cutting off.	
_	in each axial direction.		
Vibration	The buzzer will be measured after applying	After the test, the part should	
	a vibration amplitude of 1.52 mm with 10 to	meet specifications without any	
	55 Hz band of vibration frequency to each of	damage to the appearance and	
	the 3 perpendicular directions for 2 hours.	the SPL should be within	
Drop Test	The part is to be dropped from a height of	±10 dBA of the initial	
	75 cm onto a 40 mm thick wooden board 3	measurement.	
	times in 3 axis (X, Y, Z) for a total of 9 drops.		

#### **Environment Test**

Item	Test Condition	
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 should meet specifications without any damage to the appearance or performance except SPL. After 4 hours at 25°C, the SPL should be within ±10 dBA of the initial
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of:	measurement.
	+70°C  a,b:90~98%RH c:80~98%RH c:80~98%RH c:40.5hrs 3hrs 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, 2048 Hz applied.	After the test, the part shall meet 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 minute off, a minimum of 10,000 times at room temp.	should be within ±10 dBA of the initial SPL.
	(+25 ±10°C) with 1.5 V, 2048 Hz applied.	

#### **Test Conditions**

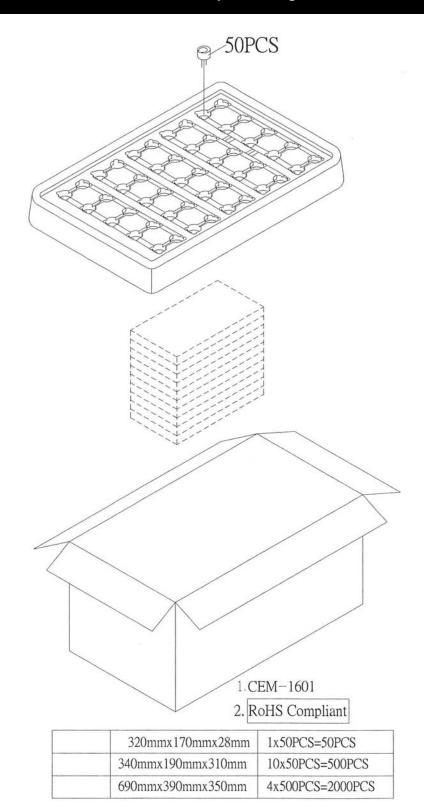
Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Tempurature: +25±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar

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## **Packaging**



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