

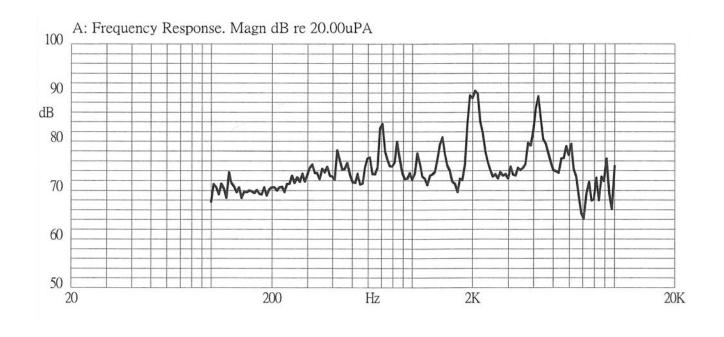
Description: magnetic buzzer

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Specifications		
Rated voltage	1.5 Vo-p	Vo-p
Operating voltage	1.0 - 2.0 Vo-p	_ <b>↓</b>
Mean current	20 mA max.	Applying rated voltage, 2048 Hz
		square wave, ½ duty
Coil resistance	42 ±6.3 Ω	
Sound output	Min. 85 (Typical 90) dBA	Distance at 10cm (A-weight free air). Applying rated voltage of 2048 Hz, square wave, 1/2 duty.
Rated frequency	2,048 Hz	
Operating temperature	-20 ~ +60° C	
Storage temperature	-30 ~ +70° C	
Dimensions	ø12.0 x H8.5 mm	See attached drawing
Weight	1.4 g	
Material	PPO (Black)	
Terminal	Pin type (Au Plating)	See attached drawing
RoHS	yes	

# **Frequency Response Curve**



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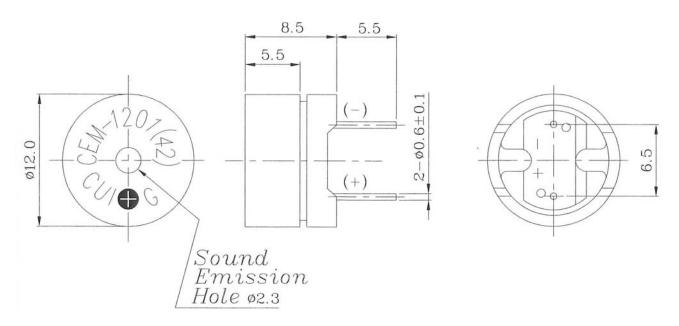


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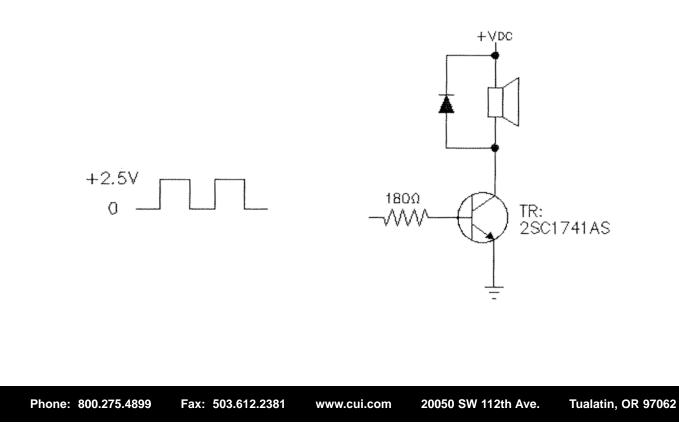
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### **Appearance Drawing**

Tolerance: ±0.5



#### **Measurement Method**





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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	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 ±10 dBA of the initial SPL.	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of:		
	+70℃ -30℃ 30 min. 4 60 min.		
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will consist of:		

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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 with 1.5 V, 2048 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, 2048 Hz applied.</li> </ol>	4 hours at $+25$ °C, the SPL should be within $\pm 10$ dBA of the initial SPL.

## **Test Conditions**

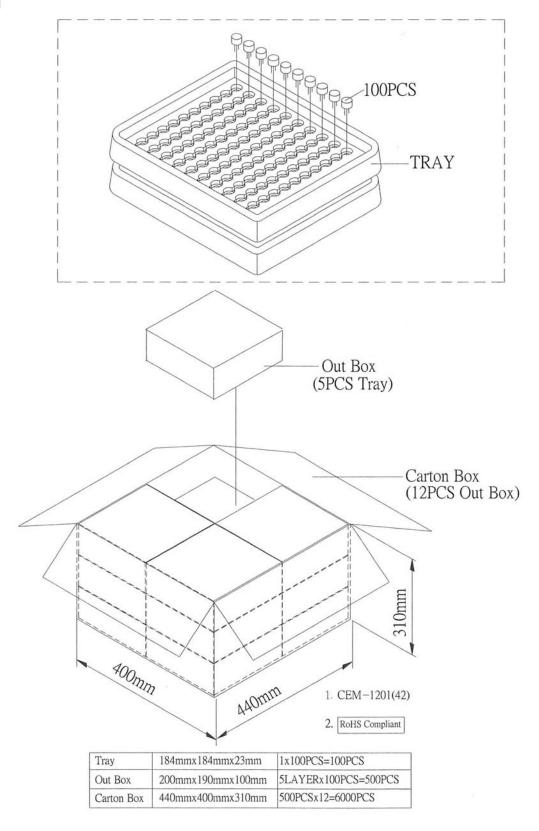
Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Tempurature: +25±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar



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Packaging



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