

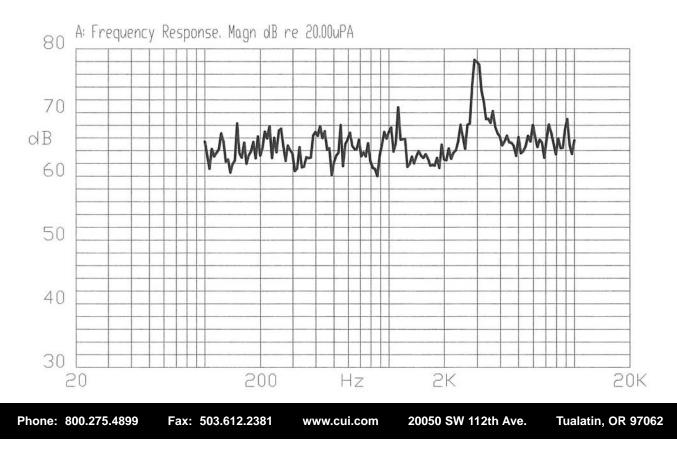
Description: magnetic buzzer

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Specifications			
Rated voltage	1.5 Vo-p	Vo-p ▲	
Operating voltage	1.0 - 1.7 Vo-p	ov	
Mean current	80 mA max.	Applying rated voltage, 3000 Hz square wave, ½ duty	
Coil resistance	6 ±1 Ω		
Coil impedance	8 Ω		
Sound output	Min. 70 (Typical 77) dBA	Distance at 10cm (A-weight free air). Applying rated voltage of 3000 Hz, square wave, ½ duty.	
Rated frequency	3,000 Hz		
Operating tempurature	-20 ~ +60° C		
Storage tempurature	-30 ~ +70° C		
Dimensions	ø6.6 x H3.5 mm	See attached drawing	
Weight	0.4 g		
Material	PPO (Black)		
Terminal	Pin type (Au Plating)	See attached drawing	
RoHS	yes		

# **Frequency Response Curve**



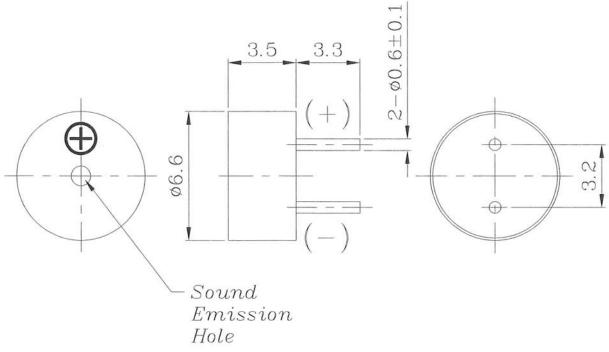


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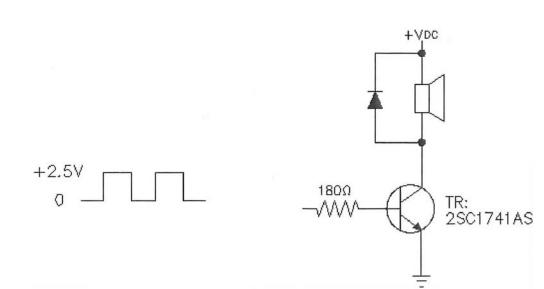
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### **Appearance Drawing**

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% min. of lead terminals should
	seconds and then immersed in a solder bath	be covered with fresh solder.
	of +270 ±5°C for 3 ±1 seconds.	(Except the edge of the terminal.)
Soldering Heat Resistance	Lead terminals are immersed in solder bath	No in interference in operation.
-	of +260 ±5°C for 3 ±1 seconds.	
Terminal Mechanical Strength	The force of 9.8 N (1.0 kg) should be applied	No damage or cutting off.
-	to the terminals.	
Vibration	The buzzer will be measured after applying	
	a vibration amplitude of 1.5 mm with 10 to	After the test, the part should
	55 Hz band of vibration frequency to each of	meet specifications without any
	the 3 perpendicular directions for 2 hours	damage to the appearance and
	(6 hours total).	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**

Test Condition	Evaluation Standard	
The part will be subjected to +70°C for 96 hours.		
The part will be subjected to -30°C for 96 hours		
The part will be subjected to 10 cycles. One cycle will consist of:		
+85°C -40°C 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	
The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of: +85°C +85°C a,b:90~98%RH c:80~98%RH c:80~98%RH 24baurs	within ±10 dBA of the initial measurement.	
	The part will be subjected to +70°C for 96 hours. The part will be subjected to -30°C for 96 hours The part will be subjected to 10 cycles. One cycle will consist of: 40°C 30  min. 30  min. 60  min. The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of: 485°C 40°C 30  min. 40°C 30  min. 1240.5 hrs 3  hrs 3	



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# **Reliability Tests**

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	After the test, the part should
	The part will be subjected to 72 hours at 45°C	meet specifications without any
	with 1.5 V, 3000 Hz applied.	damage to the appearance or performance except SPL. After 4
	2. Intermittent life test:	hours at 25°C, the SPL should be
	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, 3000 Hz applied.	within ±10 dBA of the initial measurement.

# **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

### Packaging

Each minimum package of products will be in a carton box and it should be clearly marked with the Part Number, Quantity, and Outgoing Inspection Number. There should be no mechanical damage to the products during transportation and/or in storage.