

Description: magnetic buzzer

Date: 9/08/2006

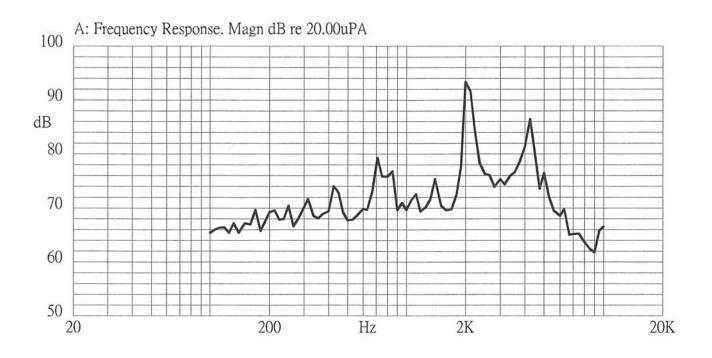
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Specifications

Rated voltage	1.5 Vo-p	Vo-p ★ ☐
Operating voltage	1.0 - 3.0 Vo-p	_ ±
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





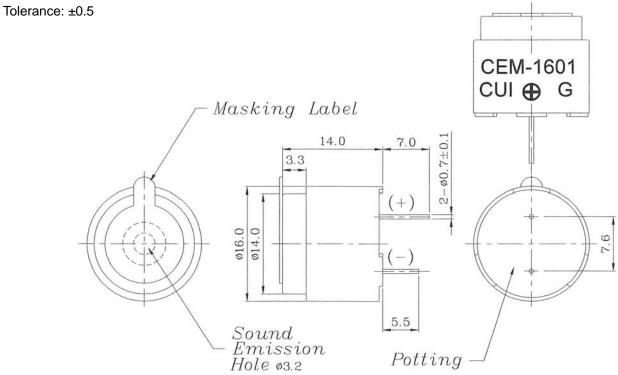
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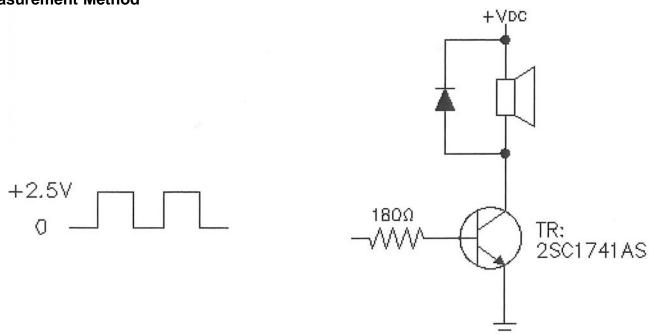
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Appearance Drawing



Measurement Method





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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
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.	
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	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 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: +70°C a,b:90~98%RH c:80~98%RH c:80~98%RH	measurement.	



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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, 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

