

Description: magnetic buzzer

Date: 8/14/2006

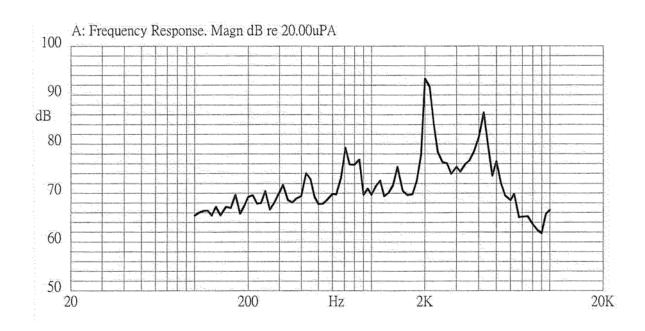
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Specifications

Rated voltage	5.0 Vo-p	Vo-p	
Operating voltage	3.0 - 8.0 Vo-p	OV	
Mean current	45 mA max.	Applying rated voltage, 2400 Hz square wave, ½ duty	
Coil resistance	47 ±7.0 Ω		
Sound output	Min. 85 (Typical 92) 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	-30 ~ +70° C		
Storage temperature	-40 ~ +85° C		
Dimensions	ø12.0 x H9.5 mm	See attached drawing	
Weight	1.6 g		
Material	PBT (Black)		
Terminal	Pin type (Plating Au)	See attached drawing	
RoHS	yes		

Frequency Response Curve





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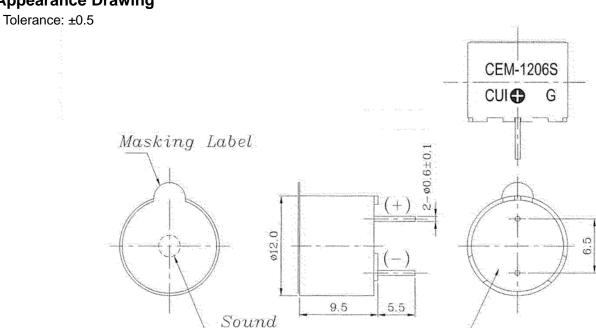
Potting

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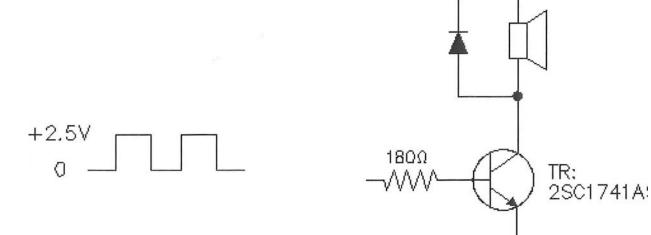
Appearance Drawing



Emission

Hole Ø2.2

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 solder bath	be wet with solder. (Except the
	of 270 ±5°C for 3 ±1 seconds.	edge of the terminal)
Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from	
	the buzzer's body in solder bath of 260 ±5°C for	No in interference in operation.
	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.	
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
Drop Test	The part is to be dropped from a height of	the SPL should be within
	75 cm onto a 40 mm thick wooden board 3	±10 dBA of the initial SPL.
	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 +85°C for	
	96 hours.	
Low temp. test	The part will be subjected to -40°C for	
	96 hours	
Thermal shock	The part will be subjected to 10 cycles. One	
	cycle will consist of:	
	+85°℃	
	-40°C	After the test, the part shall meet
	30 min. 30 min.	specifications without any
		damage to the appearance and
	60 min.	performance except SPL. After
		4 hours at +25°C, the SPL
		should be within ±10 dBA of the
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One	—
	cycle will be 24 hours and consist of:	
	+85°C	
	a,b:90~98%RH c:80~98%RH	
	/a b \	
	+25°C • (2bal 1200 6bal 2bal 2bal 2bal 2bal 2bal 2bal 2bal 2	
	3hrs 12±0,5hrs 3hrs C	
	Martine and the entre and the	
	24hours	



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Reliability Tests

Item	Test Condition	Evaluation Standard
Operating (Life Test)	Continous life test:	After the test, the part shall meet
	The part will be subjected to 72 hours at 55°C	specifications without any
	with 5 V, 2400 Hz applied.	damage to the appearance and
		performance except SPL. After
	Intermittent life test:	4 hours at +25°C, the SPL

A duty cycle of 1 minute on, 1 minute off, a should be within ±10 dBA of the minimum of 10,000 times at room temp. (25±10°C) with 5 V, 2400 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

