

Description: magnetic buzzer

Date: 9/13/2006

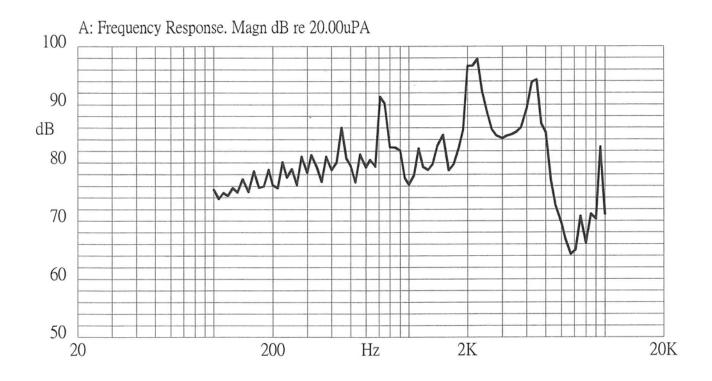
Unit: mm Page No: 1 of 5



Specifications

Rated voltage	12 Vo-p	Vo-p ↑ □
Operating voltage	6.0 - 18.0 Vo-p	_ ±
Mean current	40 mA max.	Applying rated voltage, 2048 Hz square wave, ½ duty
Coil resistance	115.0 ±17.0 Ω	
Sound output	Min. 85 (Typical 97) 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





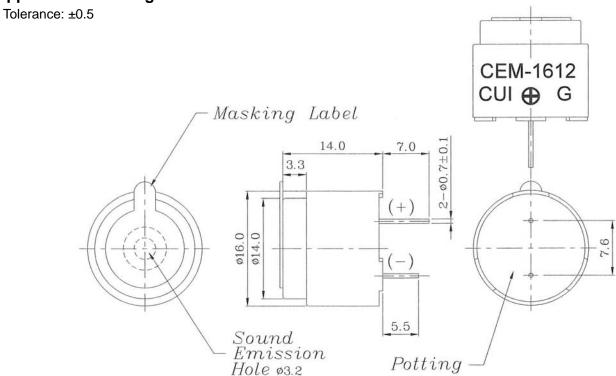
Description: magnetic buzzer

Date: 9/13/2006

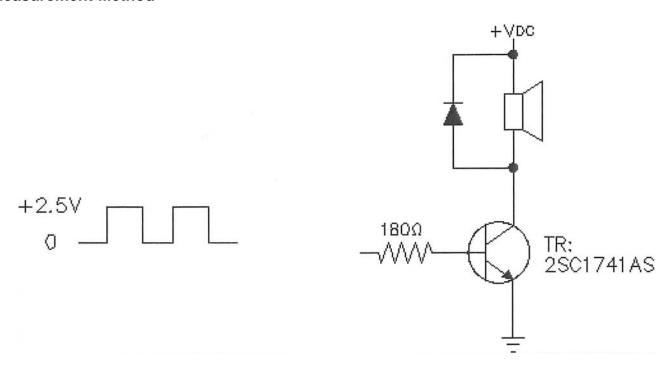
Unit: mm

Page No: 2 of 5

Appearance Drawing



Measurement Method





Description: magnetic buzzer

Date: 9/13/2006

Unit: mm Page No: 3 of 5

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.	(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 1.5mm with 10 to 55 Hz	meet specifications without any
	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.



Description: magnetic buzzer

Date: 9/13/2006

Unit: mm

Page No: 4 of 5

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 12 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. (+25 ±10°C) with 12 V, 2048 Hz applied.	should be within ±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

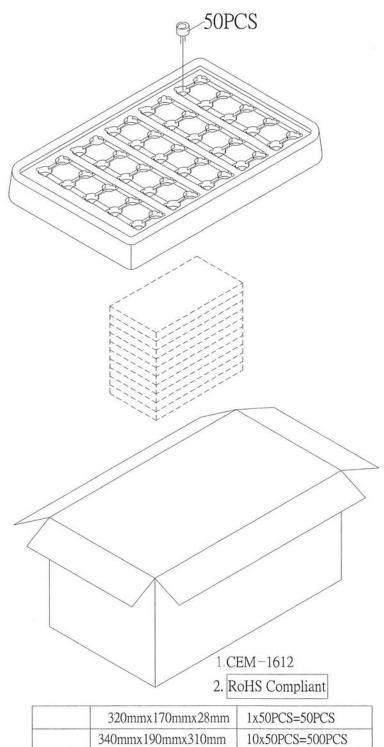


Description: magnetic buzzer

Date: 9/13/2006

Unit: mm Page No: 5 of 5

Packaging



320mmx170mmx28mm	1x50PCS=50PCS
340mmx190mmx310mm	10x50PCS=500PCS
690mmx390mmx350mm	4x500PCS=2000PCS

Phone: 800.275.4899 Fax: 503.612.2381 20050 SW 112th Ave. Tualatin, OR 97062 www.cui.com