
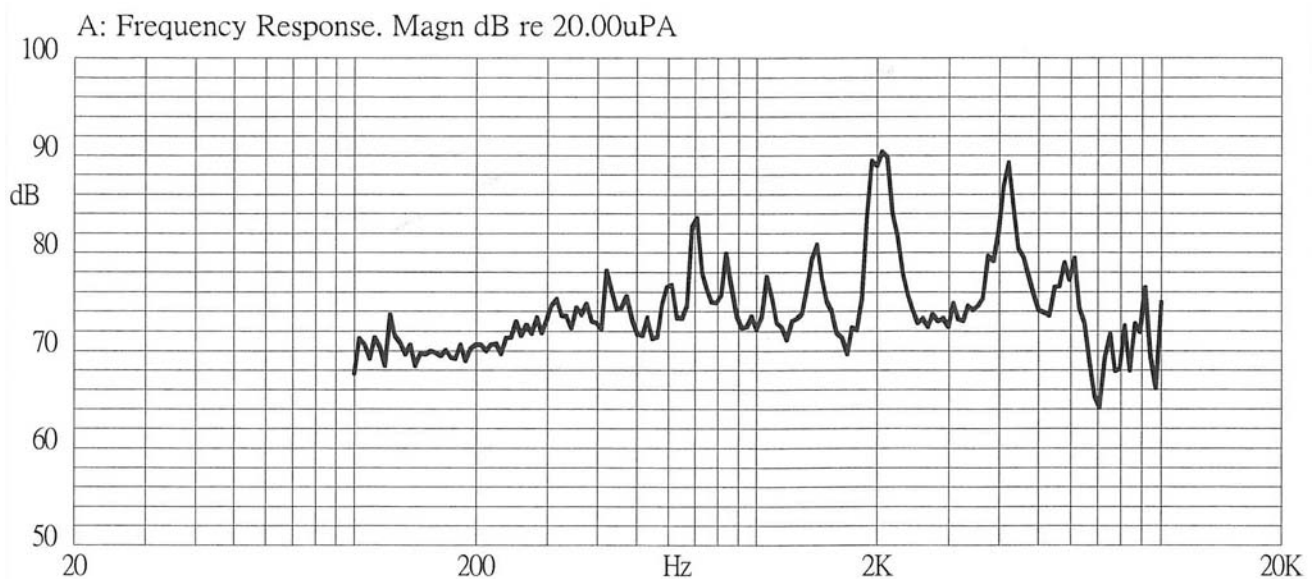


**Part No: CEM-1201(42)****Description: magnetic buzzer****Date: 9/06/2006****Unit: mm****Page No: 1 of 5**

Specifications

Rated voltage	1.5 Vo-p	
Operating voltage	1.0 - 2.0 Vo-p	
Mean current	20 mA max.	
Coil resistance	42 \pm 6.3 Ω	Applying rated voltage, 2048 Hz square wave, 1/2 duty
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	\varnothing 12.0 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





Part No: CEM-1201(42)

Description: magnetic buzzer

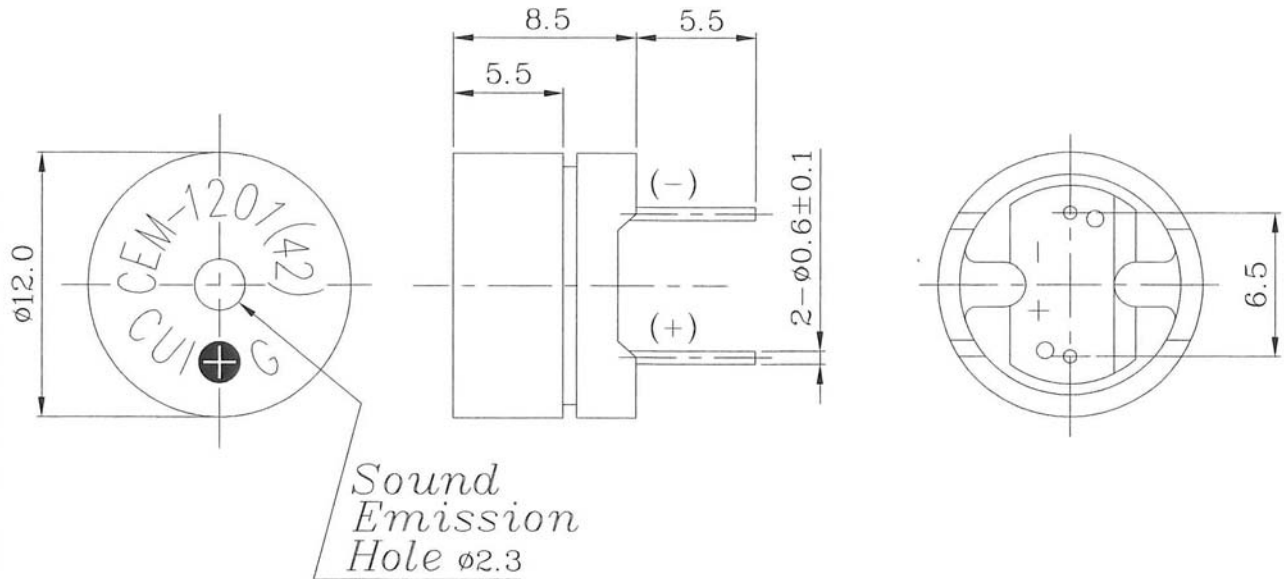
Date: 9/06/2006

Unit: mm

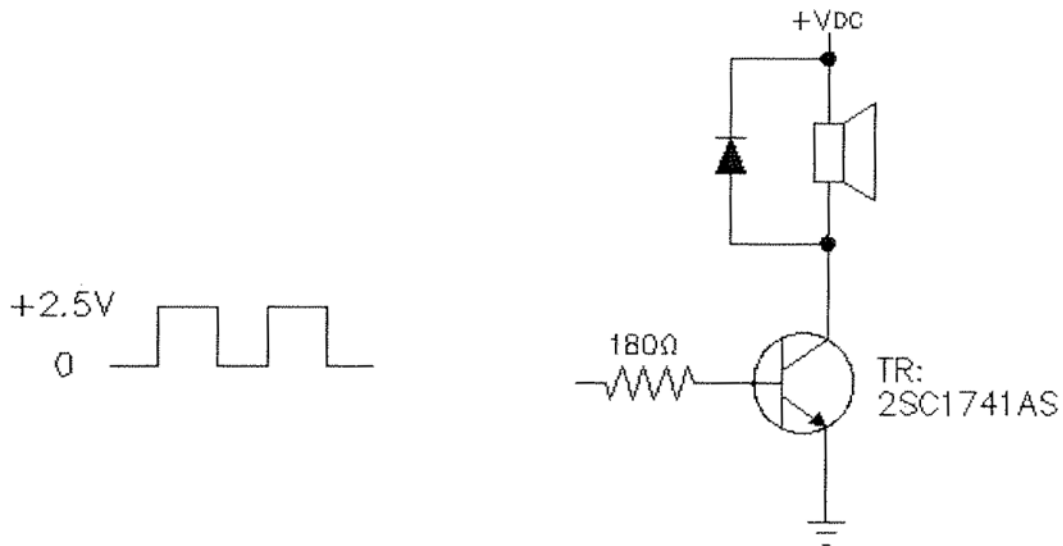
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Appearance Drawing

Tolerance: ± 0.5



Measurement Method



**Part No: CEM-1201(42)****Description: magnetic buzzer****Date: 9/06/2006****Unit: mm****Page No: 3 of 5**

Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability ¹	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $270 \pm 5^{\circ}\text{C}$ for 3 ± 1 seconds.	90% surface of lead terminals should be wet with solder. (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 $260 \pm 5^{\circ}\text{C}$ for 3 ± 1 seconds.	No in interference in operation.
Terminal Mechanical Strength	Apply force of 9.8 N (1.0 kg) to the terminal for 10 seconds in each axial direction.	No damage or cutting off.
Vibration	The buzzer will be measured after applying a vibration amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of the 3 perpendicular directions for 2 hours.	After the test, the part should meet specifications without any damage to the appearance and performance. The SPL should be within ± 10 dBA when compared to the initial measurement.
Drop Test	The part is to be dropped from a height of 75 cm onto a 40 mm thick wooden board 3 times in 3 axis (X, Y, Z) for a total of 9 drops.	

Notes: 1. Not recommended for wave soldering

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	The part will be subjected to $+70^{\circ}\text{C}$ for 96 hours.	After the test, the part shall meet specifications without any damage to the appearance except SPL. After 4 hours at $+25^{\circ}\text{C}$, the SPL should be within ± 10 dBA of the initial SPL.
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: <div data-bbox="646 1148 948 1350" data-label="Diagram"> </div>	
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will consist of: <div data-bbox="548 1482 1066 1705" data-label="Diagram"> </div>	

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Reliability Tests

Item	Test Condition	Evaluation Standard
Operating (Life Test)	<p>1. Continuous life test: The part will be subjected to 72 hours at 45°C with 1.5 V, 2048 Hz applied.</p> <p>2. Intermittent life test: 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, 2048 Hz applied.</p>	<p>After the test, the part shall meet specifications without any damage to the appearance. After 4 hours at +25°C, the SPL should be within ±10 dBA of the initial SPL.</p>

Test Conditions

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



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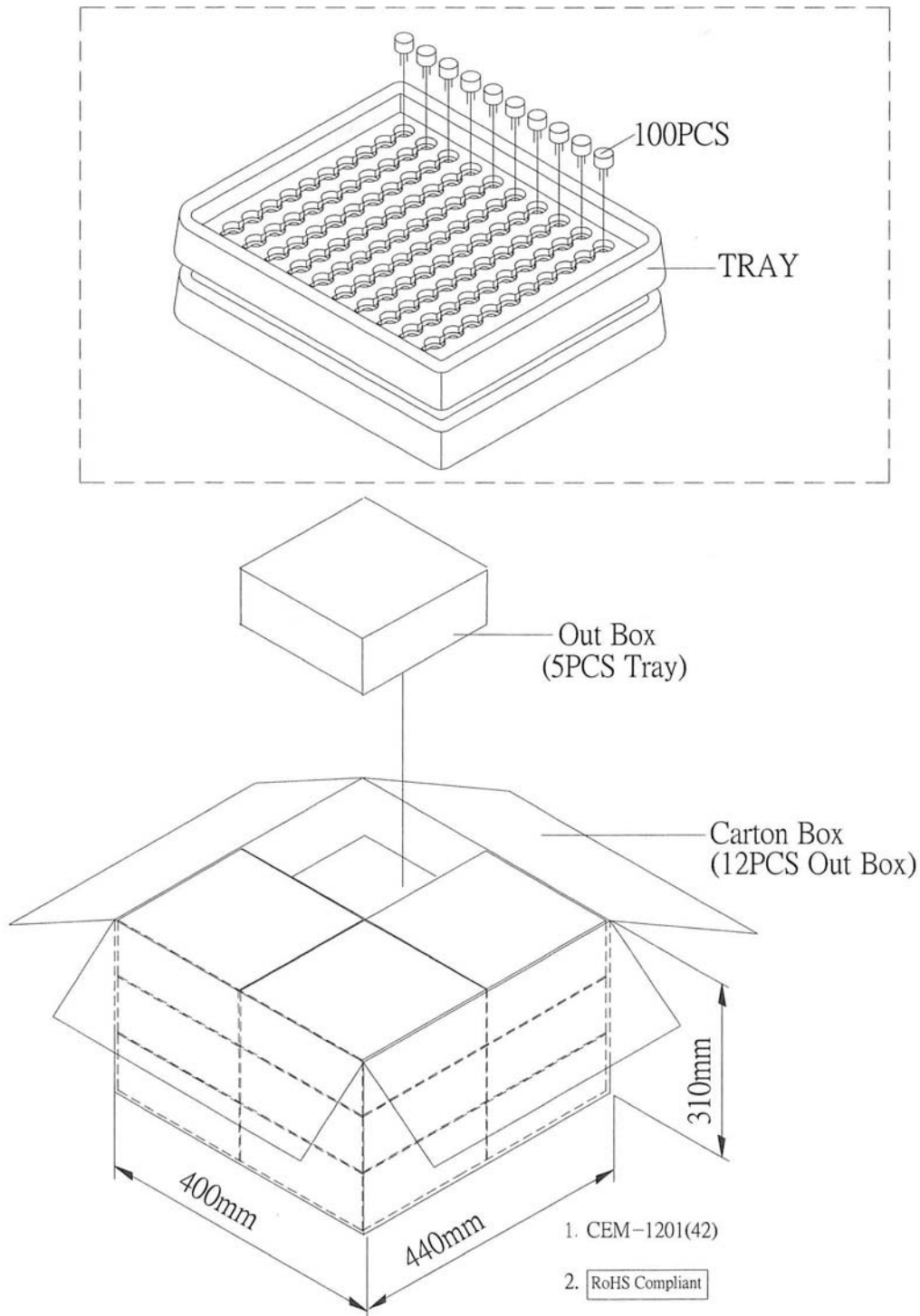
Description: magnetic buzzer

Date: 9/06/2006

Unit: mm

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Packaging



Tray	184mmx184mmx23mm	1x100PCS=100PCS
Out Box	200mmx190mmx100mm	5LAYERx100PCS=500PCS
Carton Box	440mmx400mmx310mm	500PCSx12=6000PCS

AMEYA360

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