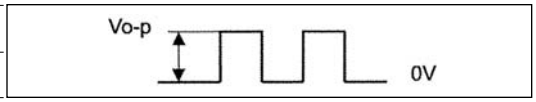
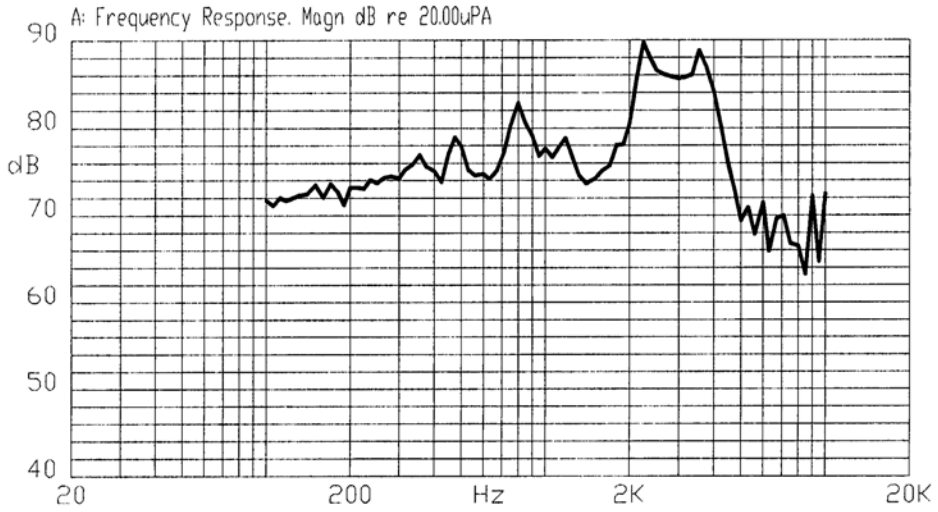
RoHS

Specifications

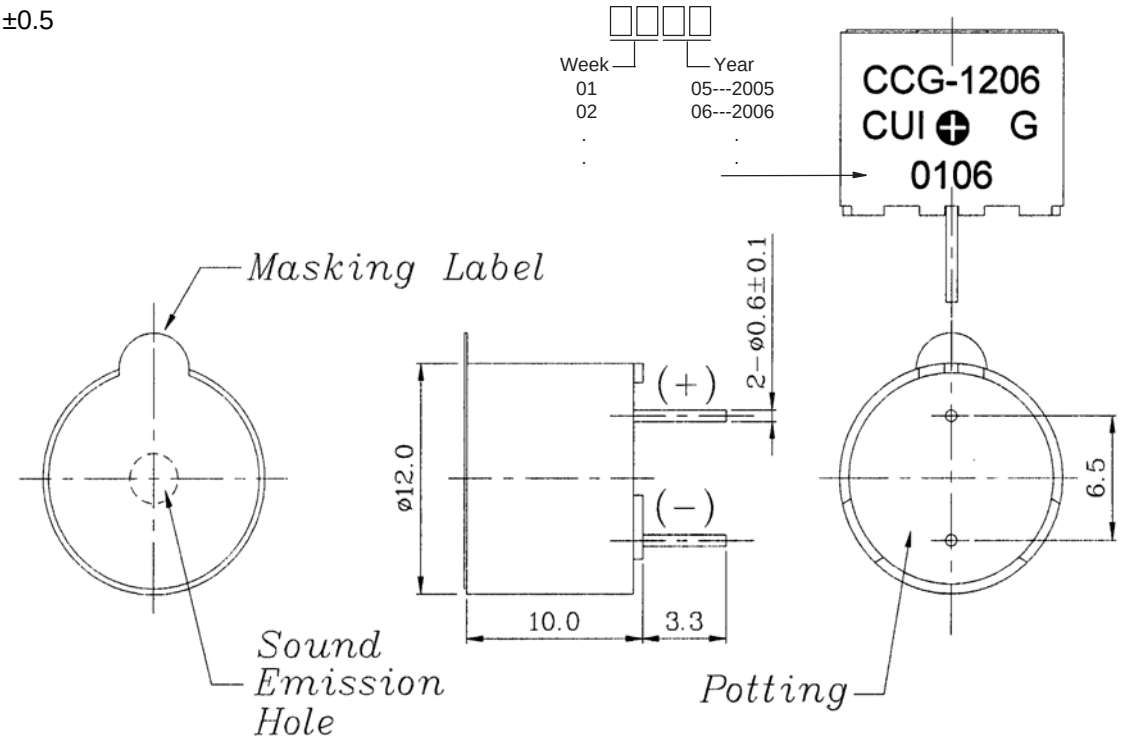
Rated voltage	5 Vo-p	
Operating voltage	4.0 - 8.0 Vo-p	
Mean current	50 mA max.	Applying rated voltage, 2400 Hz square wave, ½ duty
Coil resistance	40 ± 6 Ω	
Sound output	Min. 85 (Typical 91) dBA	Distance at 10cm (A-weight free air). Applying rated voltage of 2400 Hz, square wave, ½ duty.
Rated frequency	2,400 Hz	
Operating tempurature	-30 ~ +70° C	
Storage tempurature	-40 ~ +85° C	
Dimensions	ø12 x H10 mm	See attached drawing
Weight	1.6 g	
Material	PBT+15% (Black)	
Terminal	Pin type (Au Plating)	See attached drawing
RoHS	yes	

Frequency Response Curve

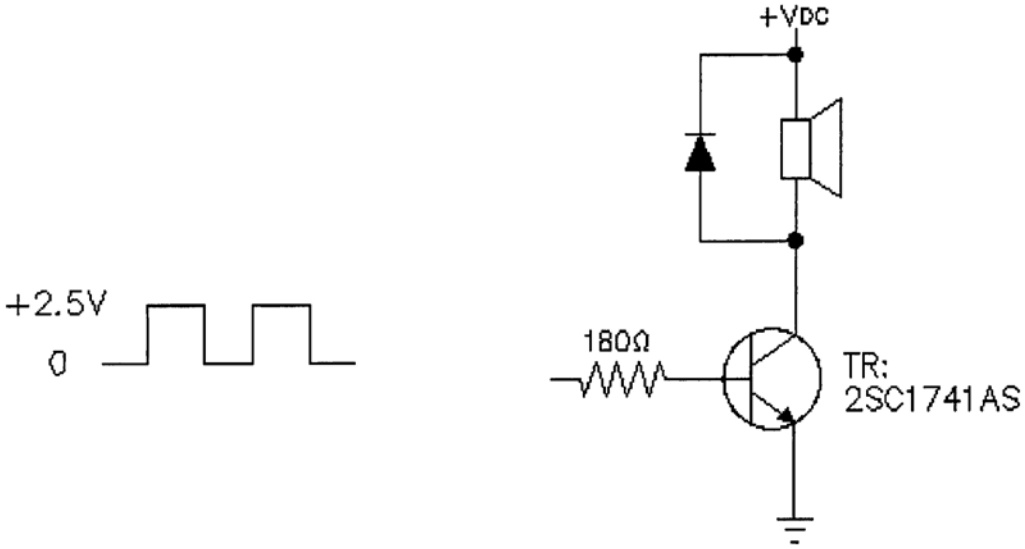


Appearance Drawing

Tolerance: ±0.5



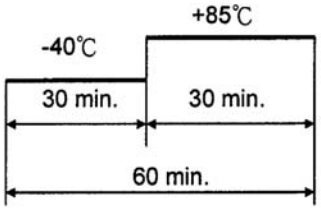
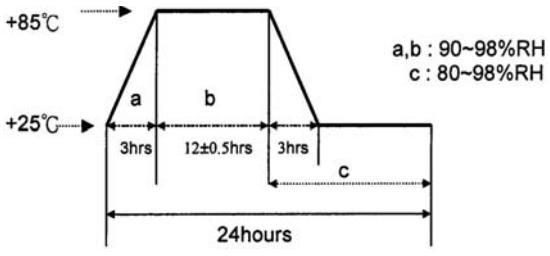
Measurement Method



Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Lead terminals are immersed in a solder bath of +270 ±5°C for 3 ±1 seconds.	90% min. of lead terminals should be covered with fresh solder. (Except the edge of the terminal.)
Soldering Heat Resistance	Lead terminals are immersed in solder bath of +260 ±5°C for 3 ±1 seconds.	No in interference in operation.
Terminal Mechanical Strength	The force of 9.8N (1.0kg) should be applied to each terminal in each axial direction.	No damage or cutting off.
Vibration	The buzzer will be measured after applying a vibration amplitude of 1.5 mm 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 the SPL should be within ±10 dBA of the initial measurement.
Drop Test	The part should 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.	

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	The part will be subjected to +85°C for 96 hours.	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 measurement.
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: 	
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle should last 24 hours and will consist of: 	

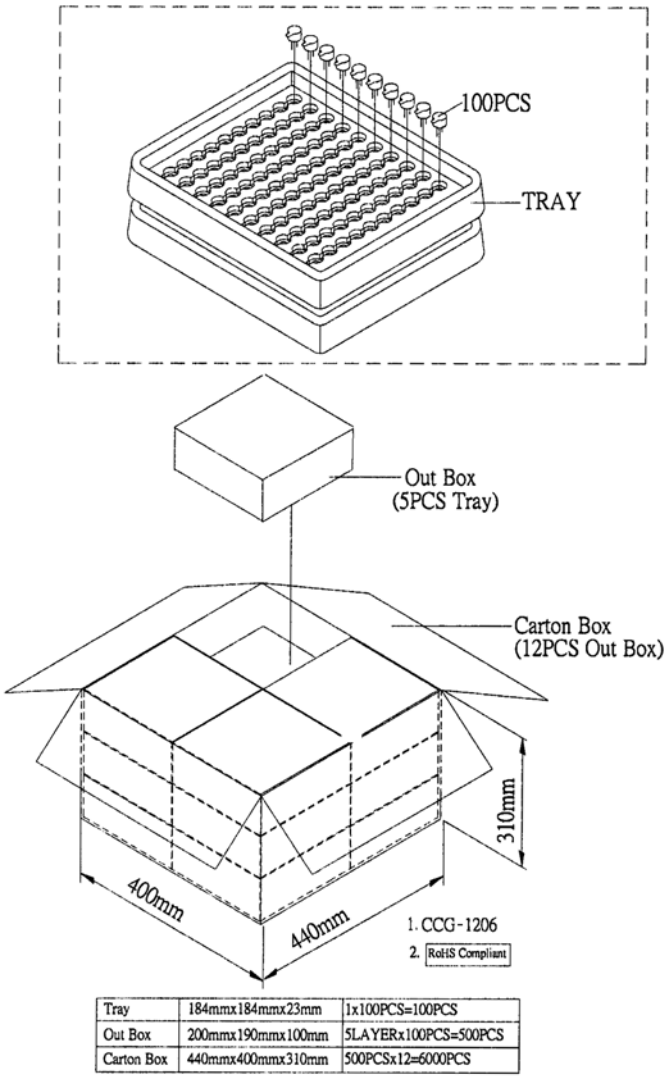
Reliability Tests

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test: The part will be subjected to 72 hours at 55°C with 5 V, 2400 Hz applied. 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 5 V, 2400 Hz applied.	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 80 dBA or more.

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



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