

Description: magnetic buzzer

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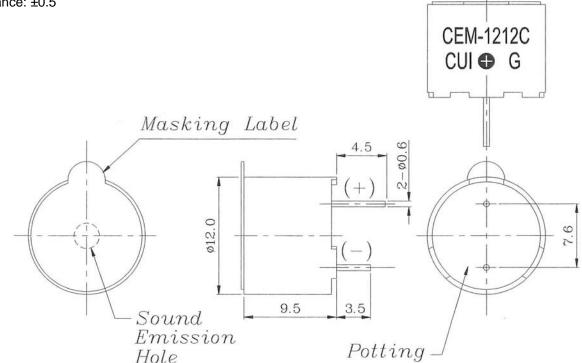


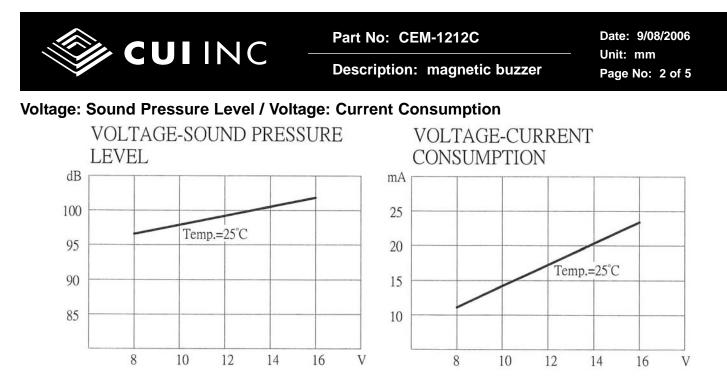
### **Specifications**

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Rated voltage	12.0 V dc		
Operating voltage	8.0 ~ 16.0 V dc		
Current consumption	35 mA max.		
Sound pressure level	85 db min. (94 db typ.)	at 10 cm (A-weight free air)	
Resonant frequency	2300 Hz ± 300		
Operating temperature	-20 ~ +60° C		
Storage temperature	-30 ~ +70° C		
Dimensions	ø12 x H9.5 mm		
Weight	1.6 g		
Material	PPO (Black)		
Terminal	Pin type (Au Plating)		
RoHS	yes		

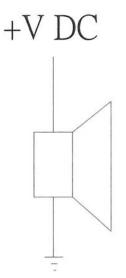
**Appearance Drawing** 

Tolerance: ±0.5





**Measurement Method** 





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#### **Mechanical Characteristics**

Item	Test Condition	Evaluation Standard
Solderability <sup>1</sup>	Lead terminals are immersed in rosin for	90% min. of the lead terminals
-	5 seconds and then immersed in solder bath	will be wet with solder.
	of 270 $\pm$ 5°C for 3 $\pm$ 1 seconds.	(Except the edge of the terminal.)
Soldering Heat Resistance	Lead terminals are immersed solder bath of	No interference in operation.
-	260 ±5°C for 3 ±1 seconds.	
Terminal Mechanical Strength	For 10 seconds, the force of 9.8N (1.0kg) is	No damage or cutting off.
_	applied to each terminal in axial direction.	
Vibration	The buzzer should 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 the 3	damage in appearance or
	perpendicular directions for 2 hours.	performance. The SPL should be
Drop Test	The part should be dropped from a height of	within ±10 dBA when compared
	75 cm onto a 40 mm thick wooden board 3	to the initial measurement.
	times in 3 axes (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	After being placed in a chamber at +70°C for 96 hours.	
Low temp. test	After being placed in a chamber at -30°C for 96 hours.	
Thermal Shock	The part should be subjected to 10 cycles. One cycle will consist of:	2
	+70°℃ -30°℃ 30 min. 30 min. 60 min.	After the test, the part should meet specifications without any damage in appearance or performance. The SPL should be within ±10 dBA when compared to the initial measurement.
Temp./Humidity cycle test	The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of: +70°C +25°C a,b:90~98%RH c:80~98%RH c:80~98%RH 24hours	



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# **Reliability Tests**

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	After the test, the part should
	The part will be subjected to 72 hours at 45°C	meet specifications without any
	with 12 V dc applied.	damage in appearance or performance. After 4 hours at
	2. Intermittent life test:	+25°C, the SPL should be
	A duty cycle of 1 minute on, 1 minute off, a	within ±10 dBA when compared
	minimum of 10,000 times at room temp.	to the initial measurement.
	(+25±10°C) with 12 V dc 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

