

Description: magnetic buzzer

Date: 9/08/2006

Unit: mm

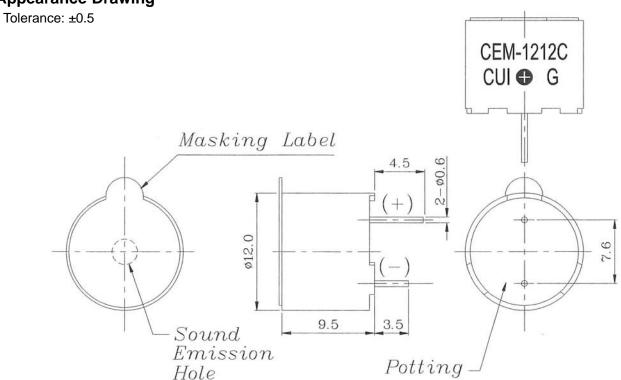
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Specifications

opeomeaneme			
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



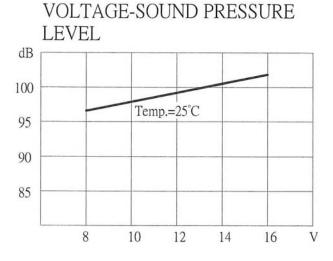


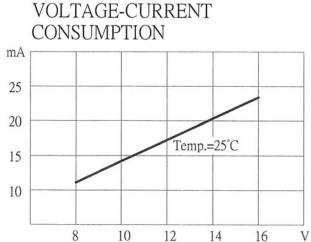
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Voltage: Sound Pressure Level / Voltage: Current Consumption





Measurement Method



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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	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 ±5°C for 3 ±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.	

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:	
	+70°C -30°C 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 a,b:90~98%RH c:80~98%RH c:80~98%RH	to the initial measurement.



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Reliability Tests

Item	Test Condition	Evaluation Standard
Operating (Life Test)	Continuous life test:	After the test, the part should
	The part will be subjected to 72 hours at 45°C with 12 V dc applied.	meet specifications without any damage in appearance or performance. After 4 hours at
	 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 12 V dc applied. 	+25°C, the SPL should be within ±10 dBA when compared to the initial measurement.

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

