

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description: magnetic buzzer

Date: 9/08/2006

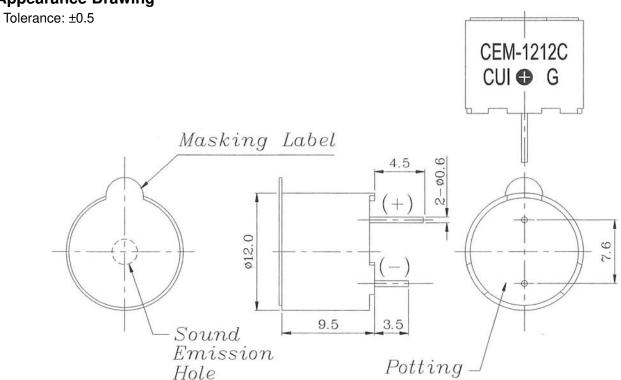
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Specifications

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



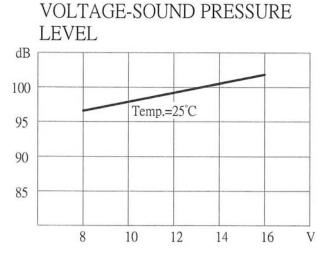


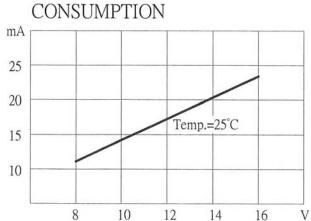
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Voltage: Sound Pressure Level / Voltage: Current Consumption





VOLTAGE-CURRENT

Measurement Method



Mechanical Characteristics

Part No: CEM-1212C

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Item	Test Condition	Evaluation Standard	
Solderability ¹	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.		

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:		
	-30°C +70°C		
	30 min. 30 min. 60 min.	After the test, the part should meet specifications without any damage in appearance or	
	◆ OO HIIII.	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		
	3hrs 12±0.5hrs 3hrs C C 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 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

