

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Description: magnetic buzzer

Date: 8/11/2006

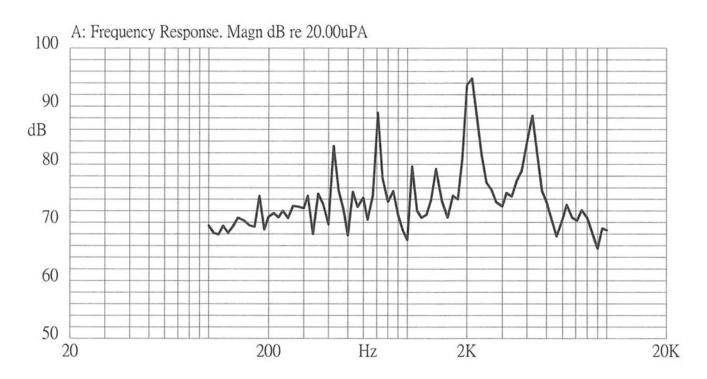
Unit: mm Page No: 1 of 5



Specifications

Rated voltage	3.5 Vo-p	Vo-p
Operating voltage	3.0 - 5.0 Vo-p	_ + L ov
Mean current	35 mA max.	Applying rated voltage, 2048 Hz
		square wave, ½ duty
Coil resistance	42 ±6.3 Ω	
Sound output	Min. 85 (Typical 95) 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	ø12.0 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





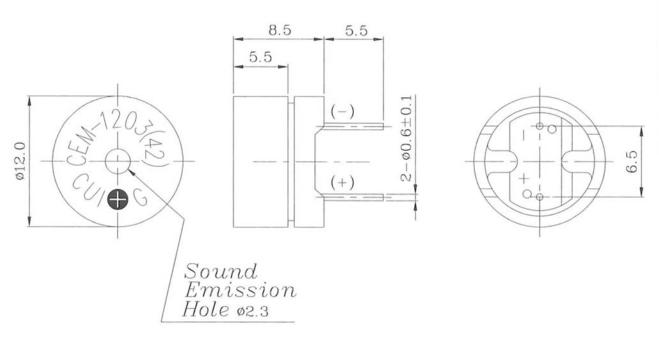
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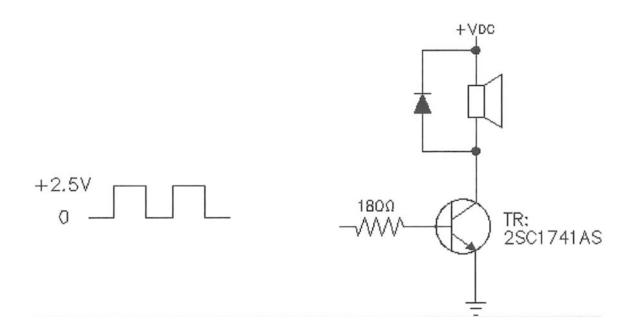
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Appearance Drawing

Tolerance: ±0.5



Measurement Method





Description: magnetic buzzer

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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability ¹	Lead terminals are immersed in rosin for 5	90% min. of lead terminals
	seconds and then immersed in solder bath	should 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 up to 1.5mm from	
	the buzzer's body in solder bath of 260 ±5°C	No in interference in operation.
	for 3 ±1 seconds.	
Terminal Mechanical Strength	Apply force of 9.8 N (1.0 kg) to each terminal in	No damage or cutting off.
	each axial direction for 10 seconds.	
Vibration	The buzzer will be measured after applying	After the test, the part shall meet
	a vibration amplitude of 1.5 mm with 10 to 55	specifications without any
	Hz band of vibration frequency to each of the 3	damage to the appearance. After
	perpendicular directions for 2 hours.	4 hours at +25°C, the SPL
Drop Test	The part is to be dropped from a height of	should be within ±10 dBA of the
	75 cm onto a 40 mm thick wooden board 3	initial SPL.
	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°C for 96 hours.	
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:	
	+70°C -30°C 30 min. 30 min. 60 min.	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.
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will consist of: +70°C a,b:90~98%RH c:80~98%RH 24hours	



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Reliability Tests

us life test: ill be subjected to 72 hours at 45°C 2048 Hz applied. After the test, the part shall meet specifications without any
2048 Hz applied. After the test, the part shall meet
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Specifications without any
ent life test: damage to the appearance. After
e of 1 minute on, 1 mintue off, a 4 hours at +25°C, the SPL
f 10,000 times at room temp. should be within ±10 dBA of the
with 3.5 V, 2048 Hz applied. initial SPL.
•

Test Conditions

Standard Test Condition a) Tempu Judgement Test Condition a) Tempu

a) Tempurature: +5 ~ +35°C

a) Tempurature: +25±2°C b) Humidity: 60 - 70%

b) Humidity: 45 - 85% c) Pressure: 860 - 1060 mbar

Humidity: 60 - 70% c) Pressure: 860 - 1060 mbar



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Packaging

