

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: piezo audio transducer

Date: 9/19/2006

Unit: mm Page No: 1 of 5

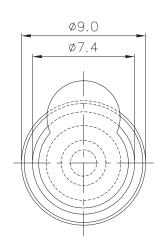


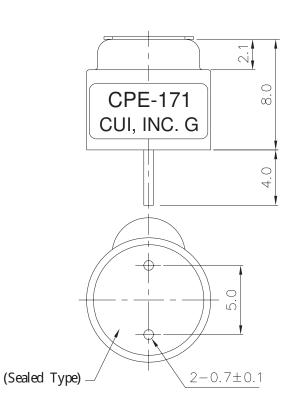
Specifications

30 Vp-p max.	
4 mA max.	at 10 Vp-p, square wave, 2.8 KHz
75 db min.	at 10 cm / 10 Vp-p, square wave, 2.8 KHz
5,600 pF ±30%	at 120 Hz / 1 V
-30 ~ +85° C	
-40 ~ +95° C	
ø9.0 x H8.0 mm	
0.52 g max.	
PBT+15% Glass (Black)	
Pin type (Au Plating)	
yes	
	4 mA max. 75 db min. 5,600 pF ±30% -30 ~ +85° C -40 ~ +95° C Ø9.0 x H8.0 mm 0.52 g max. PBT+15% Glass (Black) Pin type (Au Plating)

Appearance Drawing

Tolerance: ±0.5





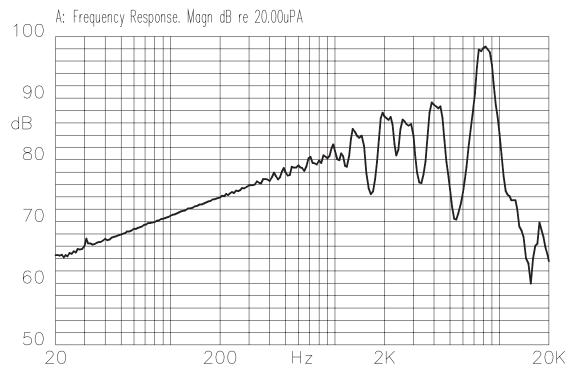


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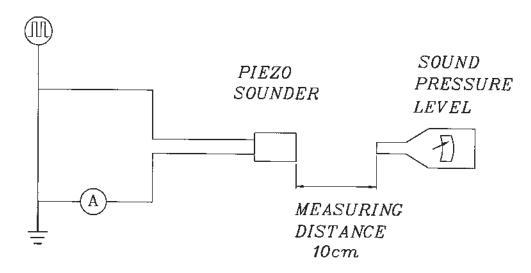
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Typical Frequency Response Curve



Measurement Method

S.P.L. Measuring Circuit Input Signal: 10Vp-p,2.8kHz, Square Wave



Mic: RION S.P.L meter UC30 or equivalent

S.G: Hewlett Packard 33120A Function Generator or equivalent



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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. (Except
	of 270 ±5°C for 3 ±1 seconds.	the edge of the terminal)
Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from	
	buzzer's body in solder bath of 300 ±5°C or No interference in operation.	
	260 ±5°C for 10 ±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 shall be measured after applying	
	a vibration amplitude of 1.5 mm with 10 to	The value of oscillation
	55 Hz band of vibration frequency to each of	frequency/current consumption
	the 3 perpendicular directions for 2 hours.	should be ±10% of the initial
Drop Test	The part will be dropped from a height of	measurements. The SPL should
	75 cm onto a 40 mm thick wooden board 3	be within ±10dB compared with
	times in 3 axes (X, Y, Z) for a total of 9 drops.	the initial measurement.

Environment Test

Item	Test Condition	Evaluation Standard	
High temp. test	After being placed in a chamber at +95°C for 240 hours.		
Low temp. test	After being placed in a chamber at -40°C for 240 hours.	-	
Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours.	The buzzer will be measured after	
Temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: +95°C -40°C 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 3hours	being placed at +25°C for 4 hours. The value of the oscillation frequency/current consumption should be ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the initial measurements.	



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Reliability Test

Item	Test Condition	Evaluation Standard	
Operating (Life Test)	1. Continuous life test:	The buzzer will be measured after	
	The part will be subjected to 48 hours of	being placed at +25°C for 4	
	continuous operation at +70°C with rated	hours. The value of the	
	voltage applied.	oscillation frequency/current consumption should be ±10%	
	2. Intermittent life test:	compared to the initial	
	A duty cycle of 1 minute on, 1 minutes off, a	measurements. The SPL should	
	minimum of 5,000 times at room temp	be within ±10dB compared to	
	(+25 ±2°C) with rated voltage applied.	the initial measurements.	

Test Conditions

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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

