

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: 9/18/2006

Unit: mm Page No: 1 of 5

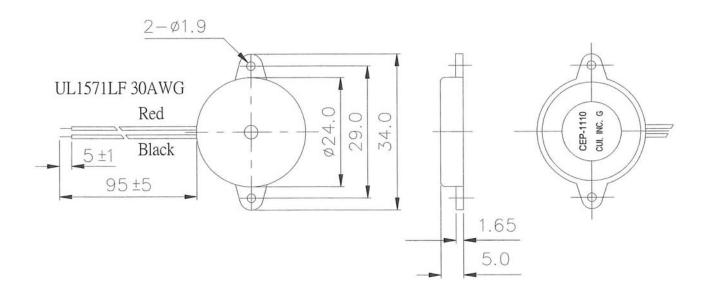


Specifications

Operating voltage	30 Vp-p max.	
Current consumption	12 mA max.	at 10 Vp-p, square wave, 4.1 KHz
Sound pressure level	90 db min.	at 10 cm / 10 Vp-p, square wave, 4.1 KHz
Electrostatic capacitance	25,000 pF ±30%	at 1 KHz / 1 V
Operating temperature	-30 ~ +85° C	
Storage temperature	-40 ~ +95° C	
Dimensions	ø24.0 x H5.0 mm	
Weight	2.2 g max.	
Material	ABS UL-94 1/16" HB High	Heat (Black)
Terminal	Wire type	
RoHS	yes	

Appearance Drawing

Tolerance: ±0.5



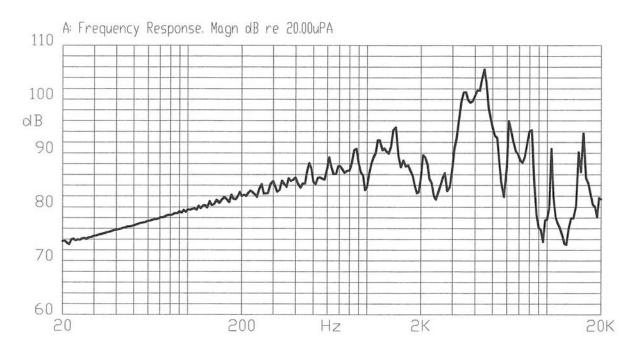


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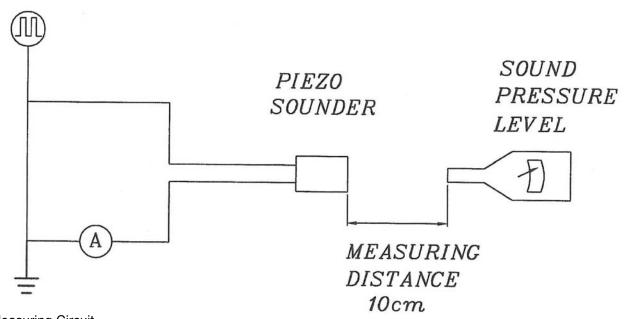
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Typical Frequency Response Curve



Measurement Method



S.P.L. Measuring Circuit

Input Signal: 10 V p-p, 4.1 KHz, Square Wave

Mic: RION UC 30

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



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Mechanical Characteristics

tem Test Condition		Evaluation Standard	
Solderability	Lead terminals are immersed in rosin for	90% min. of the stripped wires	
	5 seconds and then immersed in solder bath	will be wet with solder. (Except	
	of 270 ±5°C for 3 ±0.5 seconds.	the edge of the terminal)	
Terminal Mechanical Strength	The pull force should be applied to the double		
-	lead wire:	No damage or cutting off.	
	Horizontal 3.0N (0.306kg) for 30 seconds		
	Vertical 2.0N (0.204kg) for 30 seconds		
Vibration	The buzzer should be measured after applying	The value of oscillation	
	a vibration amplitude of 1.5 mm with 10 to	frequency/current consumption	
	55 Hz band of vibration frequency to each of	should be ±10% of the initial	
	the 3 perpendicular directions for 2 hours.	measurements. The SPL should	
Drop Test	The part will be dropped from a height of	be within ±10dB compared with	
	75 cm onto a 40 mm thick wooden board 3	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 +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 +25°C -40°C 0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25 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 250 hours of	being placed at +25°C for 4	
	continuous operation at +85°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, 5 minutes off, a	measurements. The SPL should	
	minimum of 10,000 times at room temp	be within ±10dB compared to	
	(+25 ±2°C) with rated voltage applied.	the initial measurements.	

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

