

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 indicator

Date: 6/25/2007

Unit: mm

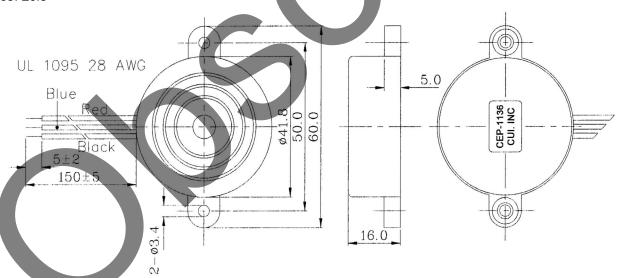
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Specifications

Operating frequency	2.8 ±0.5 KHz	
Operating voltage	3 ~ 28	
Operating current	7 mA max. at 12 V dc	
Sound pressure level	85 db min. at 30 cm / 12 V dc	
Rated voltage	12 V dc	
Tone	Continuous	
Operating temperature	-30 ~ +85° C	
Storage temperature	-40 ~ +95° C	
Dimensions	ø41.8 x H16.0 mm	
Weight	12.6 g max.	
Material	ABS UL-94 1/16" HB High Heat (Black)	
Terminal	Wire type	
RoHS	no	

Appearance Drawing

Tolerance: ±0.5



red wire ---M

blue wire ---F

black wire ---G

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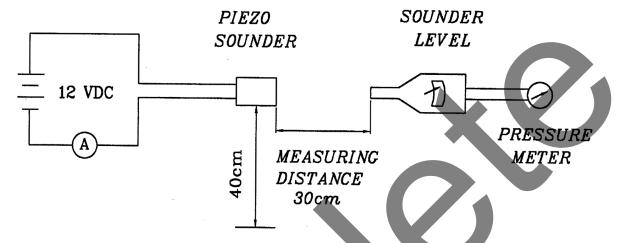
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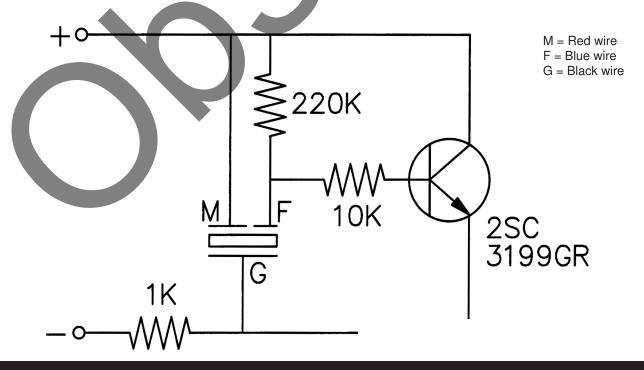
Measurement Method

1. S.P.L. Measuring Circuit



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

2. The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below



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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Stripped wires of lead wires are immersed in	90% min. of the stripped wires
	rosin for 5 seconds and then immersed in	will be wet with solder.
	solder bath of 230 ±5°C for 3 ±0.5 seconds.	(Except the edge of the terminal)
Soldering Heat Resistance	Stripped wires are immersed up to 1.5mm from	
	insulation in solder bath of 300 ±5°C for 3 ±0.5	No interference in operation.
	or 260 ±5°C for 10 ±1 seconds.	
Terminal Mechanical Strength	The pull force should be applied to lead wire	
	Horizontal 3.0N	No damage or cutting off.
	Vertical 2.0N	
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

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Item	Test Condition		Evaluation Standard
High temp. test	After being placed in a c	chamber at +95°C for	
	240 hours.		
Low temp. test	After being placed in a c	chamber at -40°C for	
·	240 hours.		
Humidity test	After being placed in a c	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 subject	ted to 5 cycles. One	being placed at +25°C for 4
	cycle will consist of:	•	hours. The value of the
		10E°C	oscillation frequency/current
		+95°C	consumption should be ±10%
			compared to the initial
	+25°C	+25°C	measurements. The SPL should
	+23 (723 (be within ±10dB compared to the
	40°C		initial measurements.
	400		initial measurements.
	0.5hr 0.5hr 0.25 0.5	hr 0.5hr 0.5hr 0.25	
	0.511 0.511 0.23 0.5		
	Shou	' '	
	3hou	118	

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Reliability Test

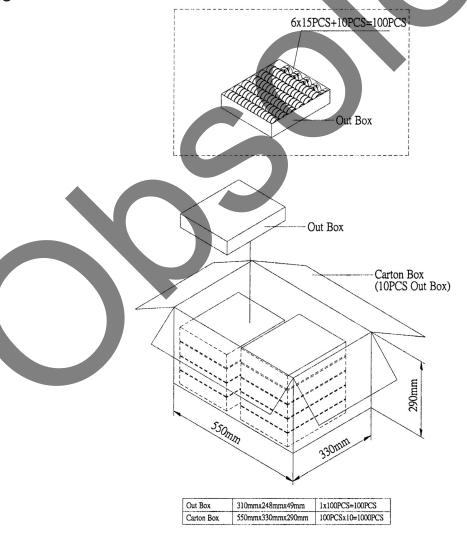
Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	The buzzer will be measured after
	The part will be subjected to 48 hours of	being placed at +25°C for 4
	continuous operation at +70°C with rated	hours. The value of the
	voltage applied.	oscillation frequency/current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

Standard Test Condition **Judgement Test Condition**

- a) Tempurature: +5 ~ +35°C
- a) Tempurature: +25 ±2°C
- b) Humidity: 45 85% b) Humidity: 60 70% c) Pressure: 860-1060 mbar
 - c) Pressure: 860-1060 mbar

Packaging



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