

Description: piezo audio indicator

Date: 9/22/2006

Unit: mm

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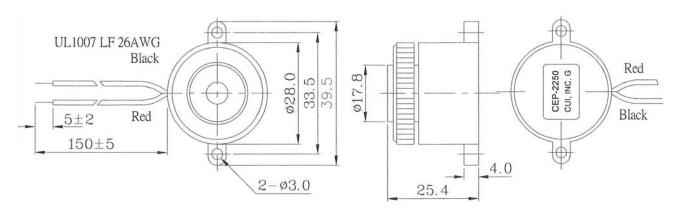


Specifications

Resonant frequency	3.5 ± 0.5 KHz	
Operating voltage	3.0 ~ 28.0 V dc	
Current consumption	6 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 tempurature	-30 ~ +85° C	
Storage tempurature	-40 ~ +95° C	
Dimensions	ø28.0 x H25.4 mm	See attached drawing
Weight	9.5 g max.	
Material	ABS UL-94 1/16" HB High Heat (Black)	
Terminal	Wire type	See attached drawing
RoHS	yes	

Appearance Drawing

Tolerance: ±0.5



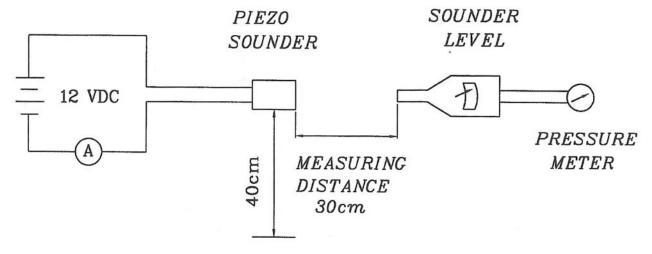


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Measurement Method



S.P.L. Measuring Circuit

Mic: RION S.P.L. meter UC 30 or equivalent

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

Mechanical Characteristics

tem Test Condition		Evaluation Standard	
Solderability	Stripped wires of lead wires are immersed in	90% min. of the stripped wires	
(Connector Excepted)	rosin for 5 seconds and then immersed in	will be wet with solder.	
	a solder bath of +270 ±5°C for 3 ±0.5 seconds.	(Except the edge of the terminal)	
Lead Wire Pull Strength	The pull force should be applied to 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 will 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 75 cm	be within ±10dB compared with	
	onto a 40 mm thick wooden board 3 times in	the initial measurement.	
	3 axis (X, Y, Z) for a total of 9 drops.		



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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.	The buzzer will be measured after being placed at +25°C for 4 hours. The value of the oscillation frequency/current consumption should be within ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the initial measurements.
Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours.	
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 0.5hr	

Reliability Test

Item	Test Condition	Evaluation Standard
Operating (Life Test)	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 ±10dB compared to the initial
	(+25±2°C) with rated voltage applied.	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



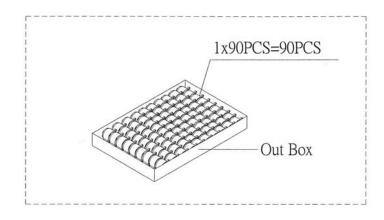
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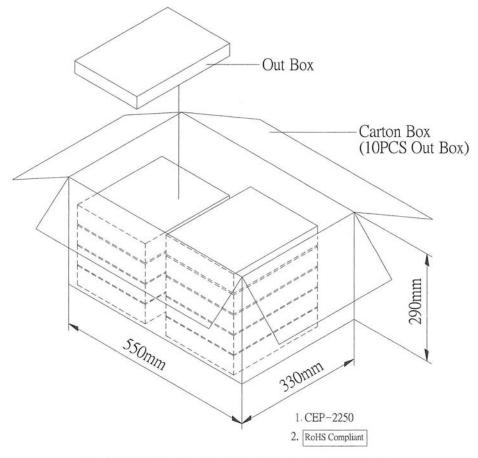
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Packaging





Out Box	310mmx248mmx49mm	1x90PCS=90PCS
Carton Box	550mmx330mmx290mm	90PCSx10=900PCS