

Description: piezo audio indicator

Date: 9/19/2006 Unit: mm

Page No: 1 of 4

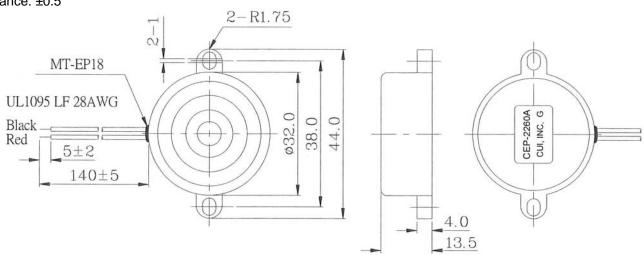


Specifications

Resonant frequency	3.5 ± 0.5 KHz		
Operating voltage	3.0 ~ 20.0 V dc		
Current consumption	10 mA max.	at 12 V dc	
Sound pressure level	93 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	ø32.0 x H13.5 mm	See attached drawing	
Weight	7.7 g max.		
Material	ABS UL-94 1/16" HB (Black)		
Terminal	Wire type	See attached drawing	
RoHS	yes		

Appearance Drawing





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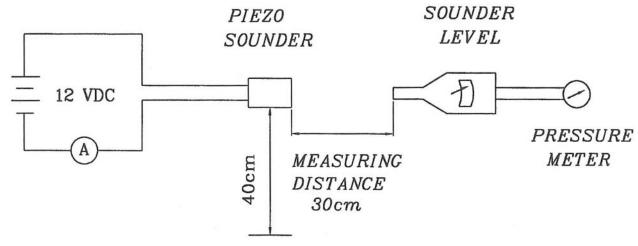
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Unit: mm

Page No: 2 of 4

Measurement Method



S.P.L. Measuring Circuit

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

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)	
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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Page No: 3 of 4

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 -25°C -40°C -25°C -40°C -3hours	

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

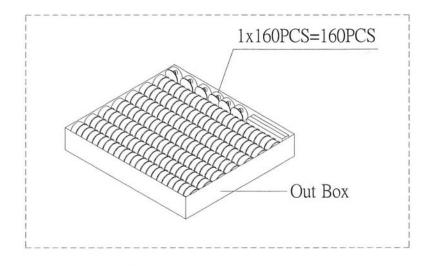
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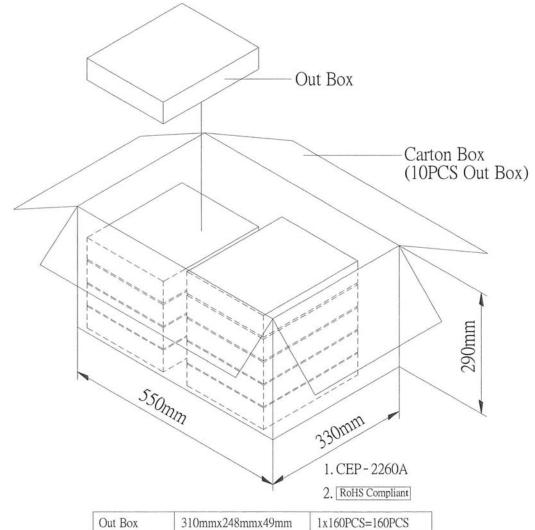
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Unit: mm Page No: 4 of 4

Packaging





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160PCSx10=1600PCS

550mmx330mmx290mm

Carton Box