

Description: piezo audio transducer

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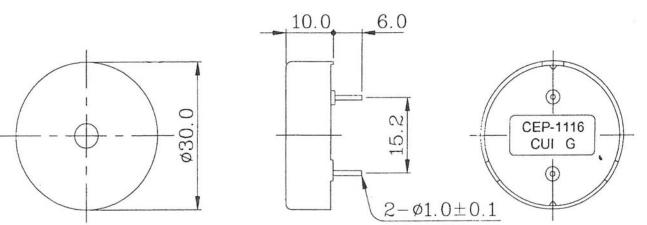


Specifications

Operating voltage	30 Vp-p max.	
Current consumption	8 mA max.	at 10 Vp-p, square wave, 2.0 KHz
Sound pressure level	90 db min.	at 10 cm / 10 Vp-p, square wave, 2.0 KHz
Electrostatic capacitance	28,000 pF ±30%	at 1 KHz / 1 V
Operating temperature	-30 ~ +85° C	
Storage temperature	-40 ~ +95° C	
Dimensions	ø30.0 x H10.0 mm	
Weight	5.6 g max.	
Material	ABS UL-94 1/16" HB F	High Heat (Black)
Terminal	Pin type (Sn Plating)	
RoHS	yes	

Appearance Drawing

Tolerance: ±0.5

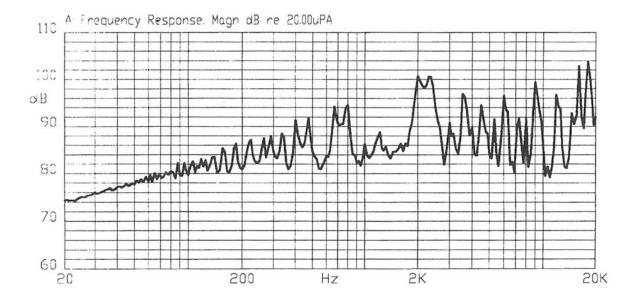




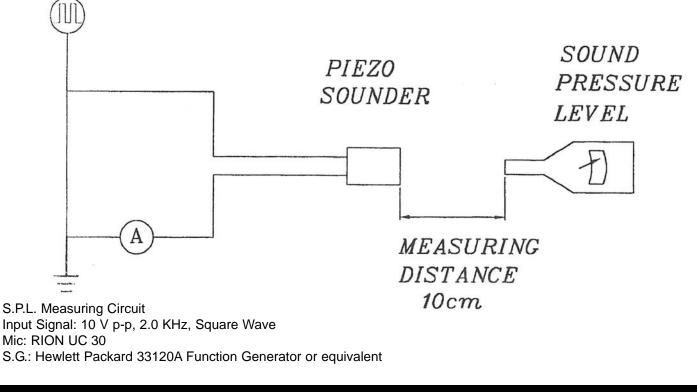
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Typical Frequency Response Curve



Measurement Method



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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 \pm 5°C for 3 \pm 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 for	No interference in operation.	
	3 ±0.5 or 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 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	
Low temp. test	240 hours. 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 ±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:	

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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
	$(+25 \pm 2^{\circ}C)$ with rated voltage applied.	the initial measurements.

Test Conditions

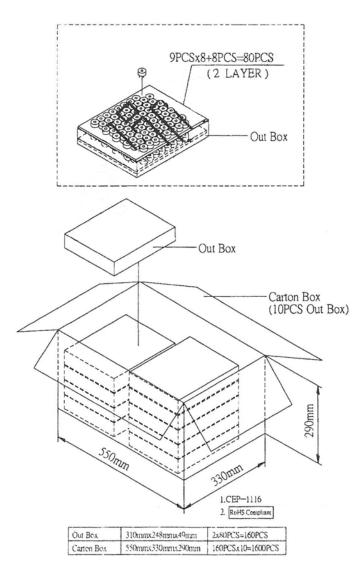
Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860-1060 mbar
Judgement Test Condition	a) Tempurature: +25 ±2°C	b) Humidity: 60 - 70%	c) Pressure: 860-1060 mbar



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Packaging



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