

Description: piezo audio transducer

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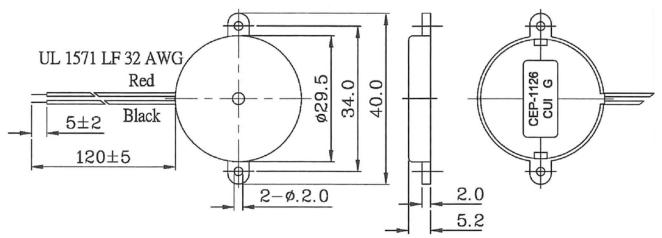


Specifications

30 Vp-p max.		
10 mA max.	at 10 Vp-p, square wave, 2.8 KHz	
92 db min.	at 10 cm / 10 Vp-p, square wave, 2.8 KHz	
18,000 pF ±30%	at 1 KHz / 1 V	
-30 ~ +85° C		
-40 ~ +95° C		
ø29.5 x H5.2 mm		
5.6 g max.		
ABS UL-94 1/16" HB High Heat (Black)		
Wire type		
yes		
	92 db min. 18,000 pF ±30% -30 ~ +85° C -40 ~ +95° C Ø29.5 x H5.2 mm 5.6 g max. ABS UL-94 1/16" HB H Wire type	

Appearance Drawing

Tolerance: ±0.5

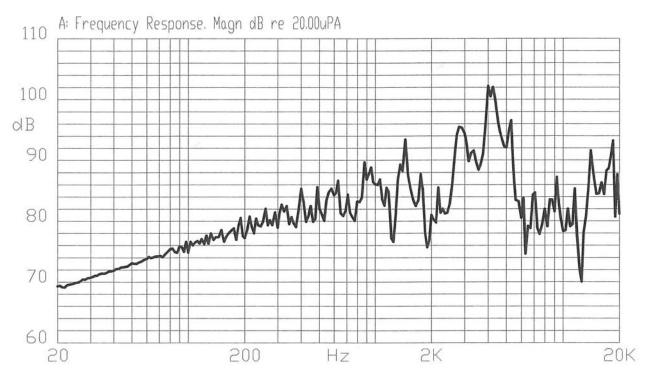




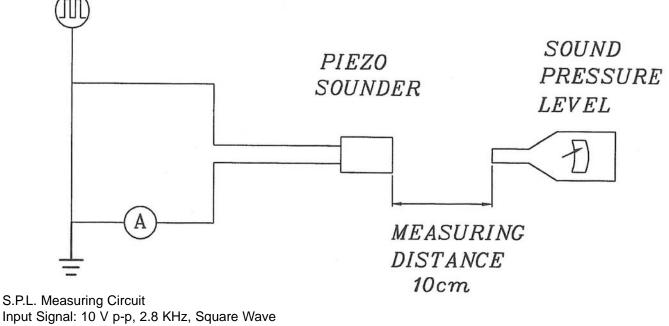
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Typical Frequency Response Curve



Measurement Method



Mic: RION UC 30

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



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Mechanical Characteristics

ltem	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.	
	of 270 \pm 5°C for 3 \pm 0.5 seconds.	(Except 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.	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.
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.	
Temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: $\begin{array}{r} +95^{\circ}\text{C} \\ \hline +25^{\circ}\text{C} \\ \hline 0.5\text{hr} \\ 0.$	



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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

