

Description: piezo audio transducer

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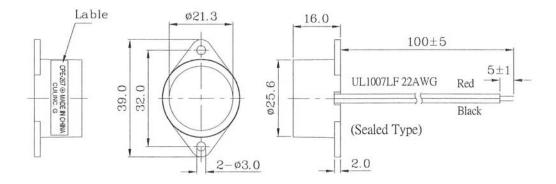


Specifications

opoonnoanonio			
Resonant frequency	2.8 KHz ± 0.5		
Operating voltage	6 ~ 14 V dc		
Current consumption	35 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	ø25.0 x H16.0 mm		
Weight	41 g max.		
Material	ABS UL-94 1/16" HB High Heat (Black)		
Terminal	Wire type		
RoHS	yes		

Appearance Drawing

Tolerance: ±0.5

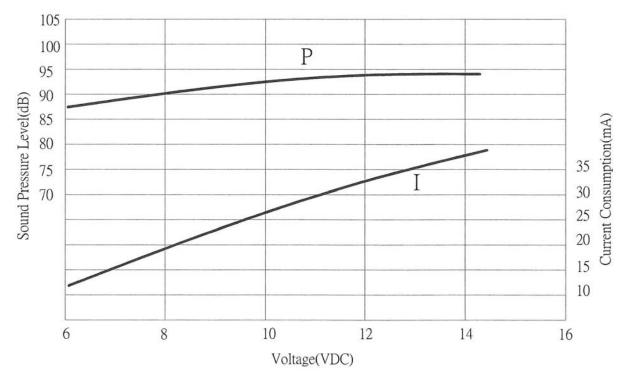




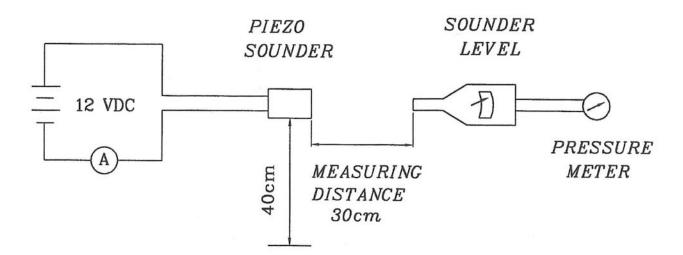
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Voltage: Sound Pressure Level / Voltage: Current Consumption



Measurement Method



S.P.L. Measuring Circuit

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

S.G.: Hewlett Packard 3310A Function Generator or equivalent



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Mechanical Characteristics

Item	Test Condition	Evaluation Standard	
Solderability	Lead terminals are immersed in rosin for	90% min. stripped wires should	
(Connector Excepted)	5 seconds and then immersed in solder bath	be wet with solder.	
	of 270 \pm 5°C for 3 \pm 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 shall 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		
	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.	
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 ±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: $\begin{array}{r} +95^{\circ}C \\ +25^{\circ}C \\ \hline 0.5hr \\ 0.5hr \\ 0.25 \\ \hline 0.5hr \\ 0$	



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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 ±13dB 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

