

Description: piezo audio indicator

Date: 7/21/2006

Unit: mm

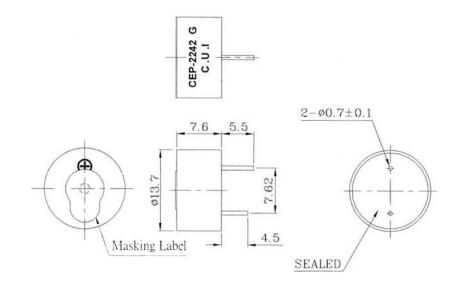
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Specifications

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Resonant frequency	4.1 KHz ± 0.5	
Operating voltage	3 ~ 16 V dc	
Current consumption	7 mA max.	at 12 V dc
Sound pressure level	70 db min.	at 30 cm / 12 V dc
Tone	Continuous	
Operating tempurature	-20 ~ +70° C	
Storage tempurature	-30 ~ +80° C	
Dimensions	Ø13.7 x H7.6 mm	
Weight	1 g max.	
Material	Noryl (Black)	
Terminal	Pin type (Au Plating)	
RoHS	yes	

Appearance Drawing

Tolerance: ±0.5





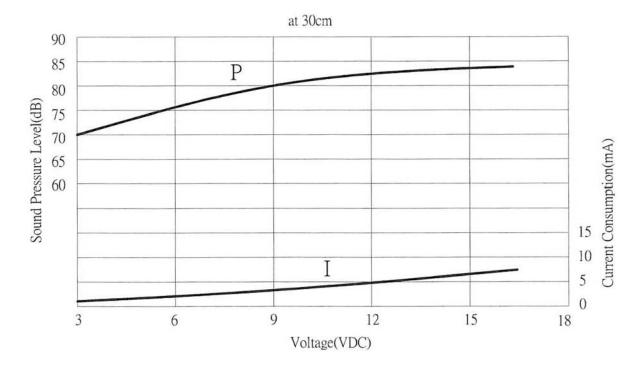
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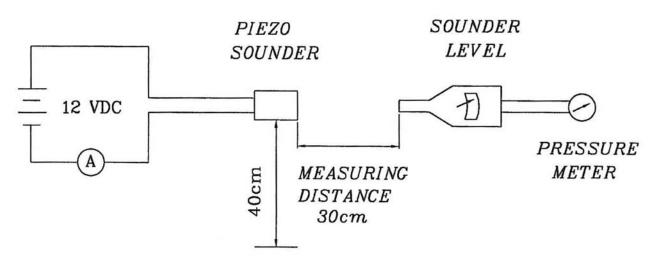
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Voltage: Sound Pressure Level / Voltage: Current Consumption



Measurement Method

S.P.L. Measuring Circuit



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

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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 ±5°C for 3 ±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 seconds 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	
	a vibration amplitude of 1.5 mm with 10 to	The value of oscillation
	55 Hz band of vibration frequency to each of	frequency/current consumption
	the 3 perpendicular directions for 2 hours.	should be ±10% of the initial
Drop Test	The part will be dropped from a height of	measurements. The SPL should
	75 cm onto a 40 mm thick wooden board 3	be within ±10dB compared with
	times in 3 axes (X, Y, Z) for a total of 9 drops.	the initial measurement.

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	After being placed in a chamber at +80°C for 240 hours.	
Low temp. test	After being placed in a chamber at -30°C for 240 hours.	
Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity 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.
Temp. cycle test	The part should be subjected to 5 cycles. One cycle will consist of: +80°C -30°C -30°C 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr	

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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 +55°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 ±2°C) with rated voltage applied.	the initial measurements.

Test Conditions

Standard Test Condition Judgement Test Condition

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

Packaging

