

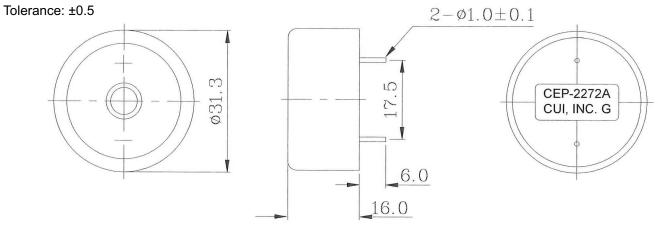
Description: piezo audio indicator

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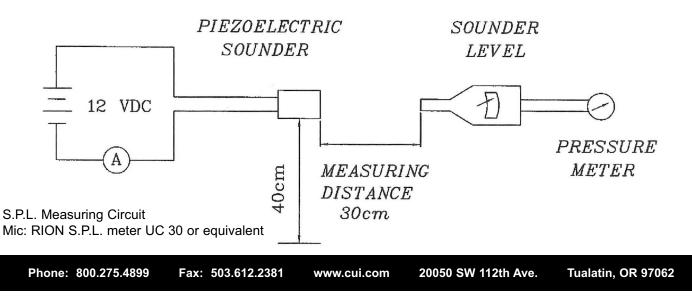
Specifications

opcomodions			
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	ø31.3 x H16.0 mm	See attached drawing	
Weight	7.0 g max.		
Material	ABS UL-94 1/16" HB (Black)		
Terminal	Pin type (Sn Plating)	See attached drawing	
RoHS	yes		

Appearance Drawing



Measurement Method





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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. (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 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.	

Environment Test

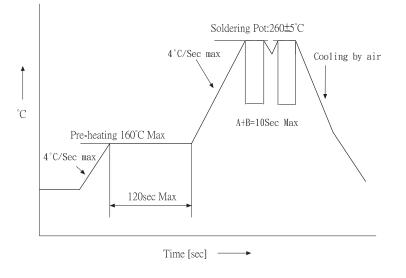
Item	Test Condition	Evaluation Standard	
High temp. test	After being placed in a chamber at +95°C for 240 hours.		
Low temp. test	After being placed in a chamber at -40°C for 240 hours.	-	
Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours.	The buzzer will be measured after	
Temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: $\begin{array}{c} +95^{\circ}C \\ +25^{\circ}C \\ \hline \\ 0.5hr \\ $	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.	



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Wave Solder Profile



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 ±10dB compared to the initial
	(+25±2°C) with rated voltage applied.	measurements.

Test Conditions

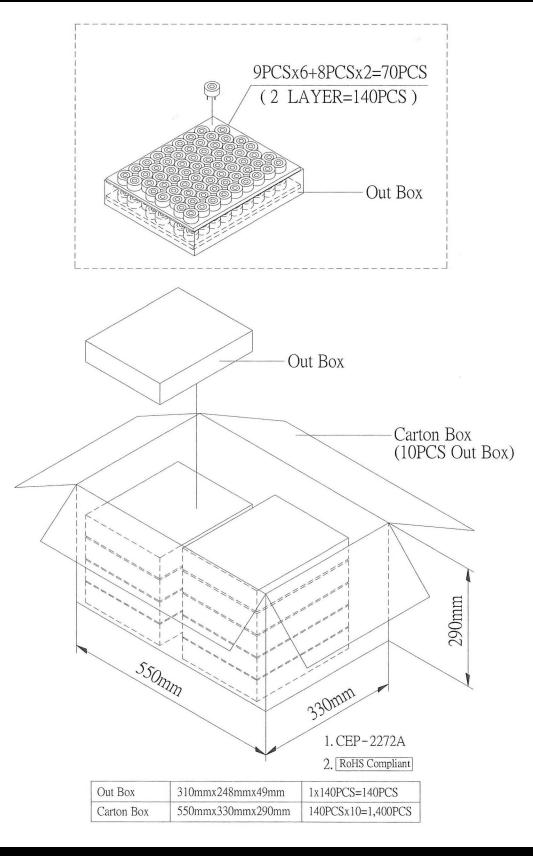
Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Tempurature: +25 ±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar



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Phone: 800.275.4899 Fax: 503.612.2381 www.cui.com 20050 SW 112th Ave. Tualatin, OR 97062