

Description: piezo audio indicator

Date: 6/25/2007

Unit: mm

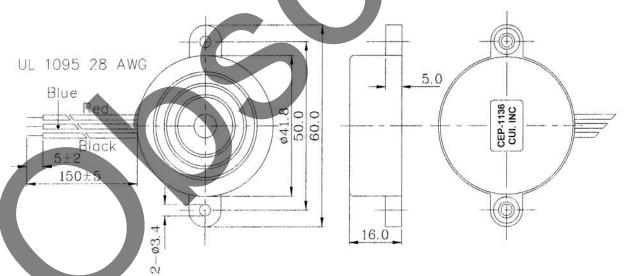
Page No: 1 of 4

Specifications

Operating frequency	2.8 ±0.5 KHz		
Operating voltage	3 ~ 28		
Operating current	7 mA max. at 12	2 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	ø41.8 x H16.0 mm		
Weight	12.6 g max.		
Material	ABS UL-94 1/16" HB High Heat ((Black)	
Terminal	Wire type		
RoHS	no		

Appearance Drawing

Tolerance: ±0.5



red wire ---M

blue wire ---F

black wire ---G

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

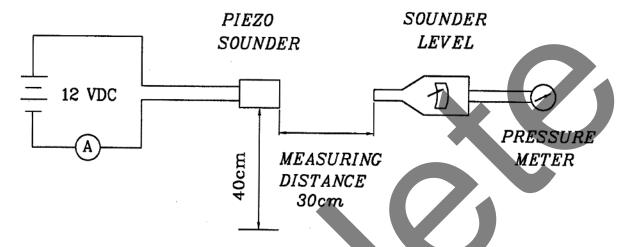
Description: piezo audio indicator

Date: 6/25/2007

Unit: mm Page No: 2 of 4

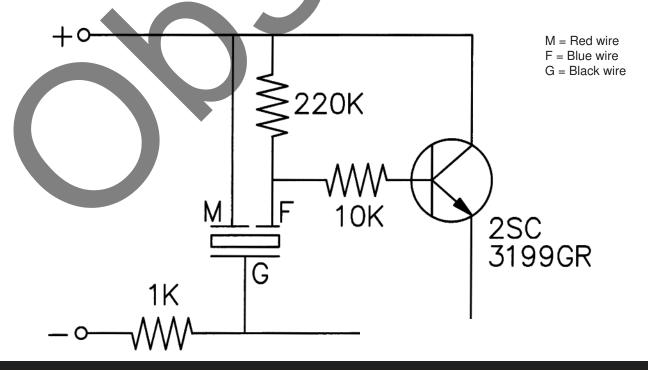
Measurement Method

1. S.P.L. Measuring Circuit



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

2. The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below



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



Description: piezo audio indicator

Date: 6/25/2007

Unit: mm Page No: 3 of 4

Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Stripped wires of lead wires are immersed in	90% min. of the stripped wires
	rosin for 5 seconds and then immersed in	will be wet with solder.
	solder bath of 230 ±5°C for 3 ±0.5 seconds.	(Except the edge of the terminal)
Soldering Heat Resistance	Stripped wires are immersed up to 1.5mm from	
	insulation in solder bath of 300 ±5°C for 3 ±0.5 or 260 ±5°C for 10 ±1 seconds.	No interference in operation.
Terminal Mechanical Strength	The pull force should be applied to lead wire	
	Horizontal 3.0N	No damage or cutting off.
	Vertical 2.0N	
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 Te	st Condition	Evaluation Standard
High temp. test Aft	ter being placed in a chamber at +95°C for	
	0 hours.	
Low temp. test Aft	ter being placed in a chamber at -40°C for	
·	0 hours.	
•	ter being placed in a chamber at +40°C and	
	±5% relative humidity for 240 hours.	The buzzer will be measured after
	e part shall be subjected to 5 cycles. One	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.

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



Description: piezo audio indicator

Date: 6/25/2007

Unit: mm

Page No: 4 of 4

Reliability Test

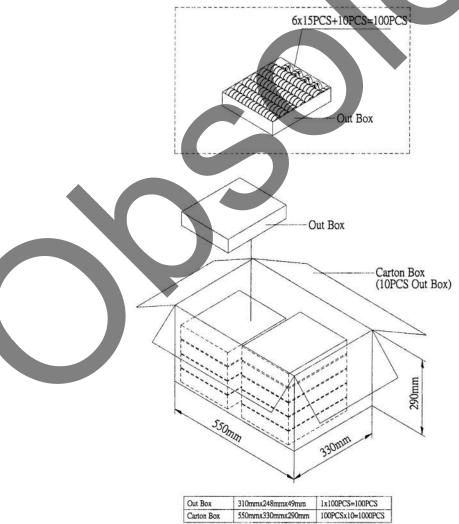
Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Continuous life test:	The buzzer will be measured after
	The part will be subjected to 48 hours of	being placed at +25°C for 4
	continuous operation at +70°C with rated	hours. The value of the
	voltage applied.	oscillation frequency/current
		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 ±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% b) Humidity: 60 70% c) Pressure: 860-1060 mbar
 - c) Pressure: 860-1060 mbar

Packaging



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