# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

CUI Inc. CEP-2202AS

For any questions, you can email us directly: <a href="mailto:sales@integrated-circuit.com">sales@integrated-circuit.com</a>



Datasheet of CEP-2202AS - BUZZER PIEZO 12V 24.2MM RADIAL

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

For more information, please visit the product page.



Part No: CEP-2202AS

Description: piezo audio indicator

Date: 9/18/2006

Unit: mm Page No: 1 of 5

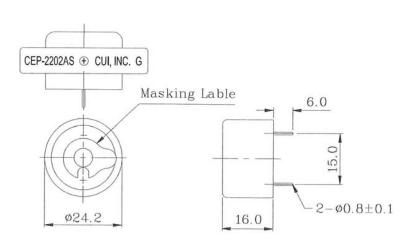


## **Specifications**

Resonant frequency	3.0 KHz ± 0.5	
Operating voltage	3 ~ 20 V dc	
Current consumption	11 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	ø24.2 x H16.0 mm	
Weight	5 g max.	
Material	ABS UL-94 1/16" HB High I	Heat (Black)
Terminal	Pin type (Sn Plating)	
RoHS	yes	

## **Appearance Drawing**

Tolerance: ±0.5





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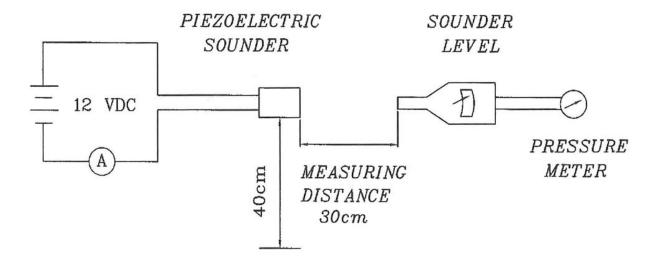
Part No: CEP-2202AS

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Unit: mm Page No: 2 of 5

#### **Measurement Method**



S.P.L. Measuring Circuit

Mic: RION S.P.L. meter UC 30 or equivalent



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Page No: 3 of 5

#### **Mechanical Characteristics**

Item	Test Condition	Evaluation Standard
Solderability <sup>1</sup>	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 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 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.	

Notes: 1. Not recommended for wave soldering

#### **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:  +95°C  +25°C  -40°C  -40°C  -3hours	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.



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Date: 9/18/2006 Unit: mm

Description: piezo audio indicator

Page No: 4 of 5

## **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 +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 minutes 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

b) Humidity: 45 - 85%

c) Pressure: 860-1060 mbar

a) Tempurature: +25 ±2°C

b) Humidity: 60 - 70%

c) Pressure: 860-1060 mbar



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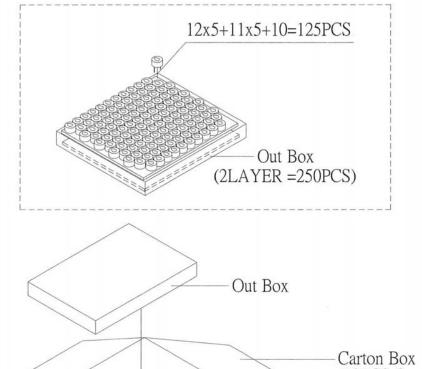
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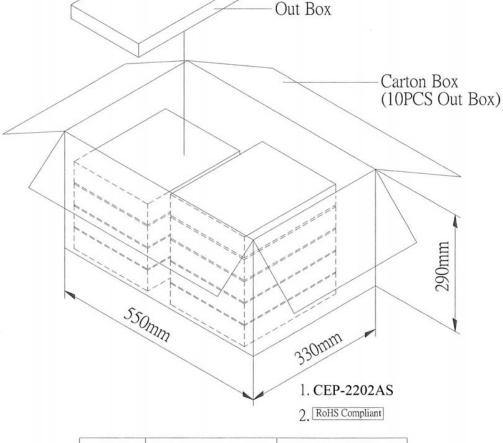
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Unit: mm Page No: 5 of 5

# **Packaging**





Out Box	310mmx248mmx49mm	2x125PCS=250PCS
Carton Box	550mmx330mmx290mm	250PCSx10=2,500PCS