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CUI Inc. CPE-350A

For any questions, you can email us directly: sales@integrated-circuit.com



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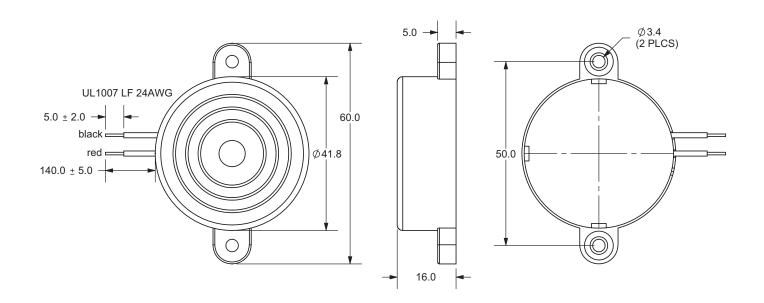
PART NUMBER: CPE-350A DESCRIPTION: piezo audio indicators

SPECIFICATONS

operating frequency	2.8 ± 0.5 KHz		
operating voltage range	3 ~ 20 V DC		
current consumption	12 mA max.	at 12 V DC	
sound pressure level	92 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	Ø41.8 x H16.0 mm		
weight	14.6 g max.		
material	ABS UL-94 1/16" high heat (black)		
terminal	wire type		
RoHS	yes		

APPEARANCE DRAWING

tolerance: ±0.5 units: mm





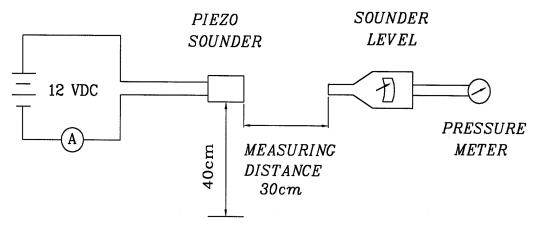


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MEASUREMENT METHOD



S.P.L. Measuring Circuit

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

S.G.: Hewlett Packard 33120A function gernerator or equivalent

MECHANICAL CHARACTERISTICS

item	test condition		evaluation standard	
solderability	Stripped wires are immersed in rosin for		90% min. of the lead terminals	
	5 seconds and the	n immersed in solder bath	will be wet with solder	
	of 270 ±5°C for 3 ±1 seconds.		(except the edge of the terminal).	
lead wire pull strength	The pull force shal	I be applied to lead wire:		
, -	Horizontal	3.0N for 30 seconds	No damage or cutting off.	
	Vertical	2.0N 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 perpendicula	r 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.		



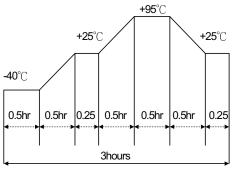
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date 11/12/2007

PART NUMBER: CPE-350A DESCRIPTION: piezo audio indicators

ENVIRONMENT TEST

evaluation standard
per at +95°C for
per at -40°C for
per at +40°C and
40 hours.
5 cycles. One The buzzer will be measured a
being placed at +25°C for 4
hours. The value of the
+95°C oscillation frequency/current
4



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.

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
	2. Intermittent life test:	consumption should be ±10% 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	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

