

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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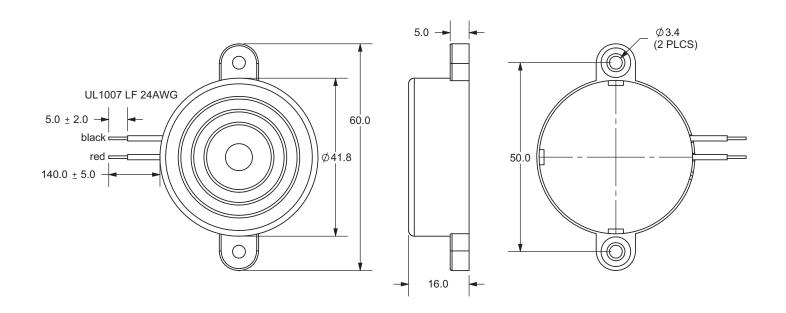
PART NUMBER: CPE-350A DESCRIPTION: piezo audio indicators

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



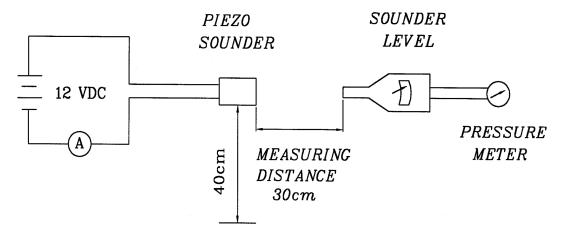


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MEASUREMENT METHOD



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 then immersed in solder bath of 270 ±5°C for 3 ±1 seconds.		will be wet with solder	
			(except the edge of the terminal).	
lead wire pull strength	The pull force shall 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 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.		



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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.	
temp. cycle test	The part shall be subjected to 5 cycles. One	The buzzer will be measured after being placed at +25°C for 4
	cycle will consist of:	
		hours. The value of the
	+95°C	oscillation frequency/current
	+25°C +25°C	consumption should be ±10%
	T25 (T25 (compared to the initial
		measurements. The SPL should
	-40°C /	be within ±10dB compared to the
		initial measurements.
	0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.25	

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 minutes off, a minimum of 5,000 times at room temp	measurements. The SPL should 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

