

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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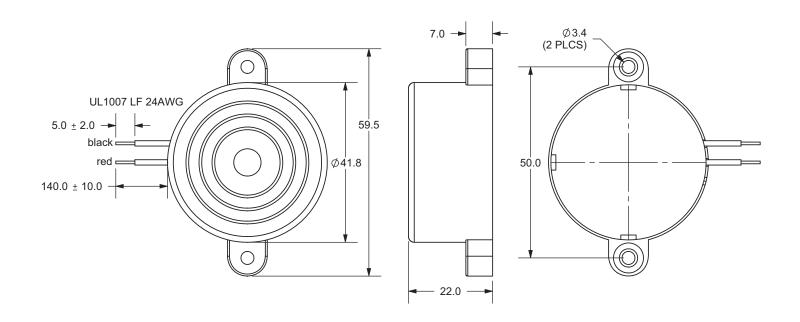
PART NUMBER: CPE-400AC DESCRIPTION: piezo audio indicators

SPECIFICATONS

operating frequency	3.1 ± 0.5 KHz	
operating voltage range	3 ~ 30 V AC/V DC	AC/DC non-polar
current consumption	8 mA max.	at 12 V AC
sound pressure level	89 db min.	at 30 cm/12 V AC
rated voltage	12 V AC	
tone	continuous	
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	Ø41.8 x H22.0 mm	
weight	15.7 g max.	
material	ABS UL-94 1/16" high heat (black)	
terminal	wire type	
RoHS	yes	

APPEARANCE DRAWING

tolerance: ±0.5 units: mm



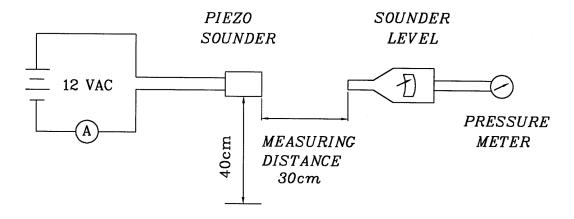


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MEASUREMENT METHOD

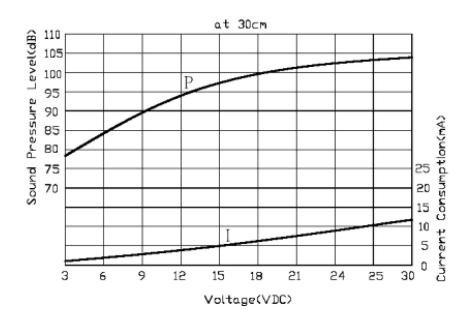


S.P.L. Measuring Circuit

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

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

CURRENT CONSUMPTION/SOUND PRESSURE LEVEL





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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 b	e measured after applying	The value of oscillation
	a vibration amplitu	de of 1.5 mm with 10 to	frequency/current consumption
	55 Hz band of vibr	ation 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 dro	opped 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	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 cycle will consist of: +95°C +25°C +25°C -40°C 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 3hours	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.



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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	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

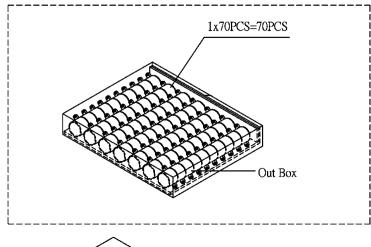


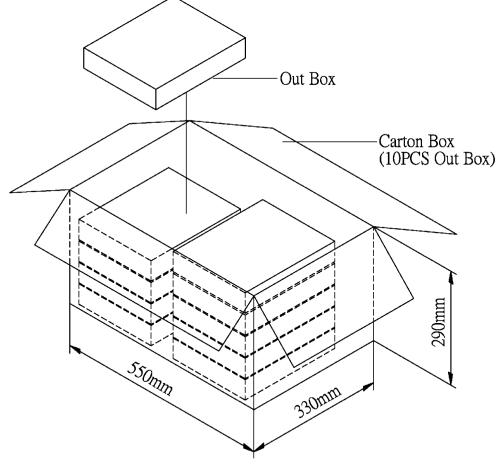
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PACKAGING





Ou	ıt Box	310mmx248mmx49mm	1x70PCS=70PCS
Ca	rton Box	550mmx330mmx290mm	70PCSx10=700PCS