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date 11/12/2007

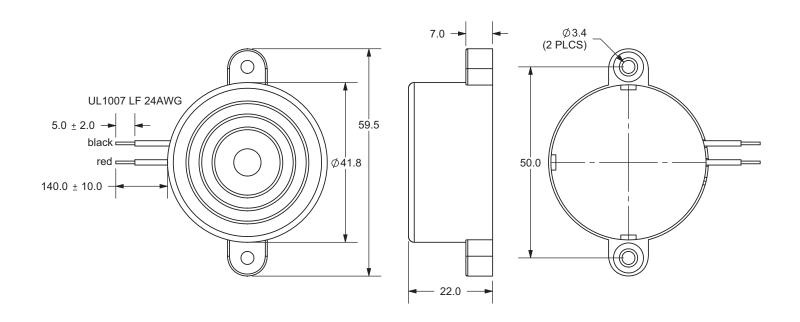
PART NUMBER: CPE-422AC DESCRIPTION: piezo audio indicators

SPECIFICATIONS

operating frequency	3.0 ± 0.5 KHz	
operating voltage range	60 ~ 250 V AC/V DC	AC/DC non-polar
current consumption	13 mA max.	at 220 V AC
sound pressure level	92 db min.	at 30 cm/220 V AC
rated voltage	220 V AC	
tone	continuous	
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	Ø41.8 x H22.0 mm	
weight	22.5 g max.	
material	ABS UL-94 1/16" high heat	t (black)
terminal	wire type	
RoHS	yes	

APPEARANCE DRAWING

tolerance: ±0.5 units: mm



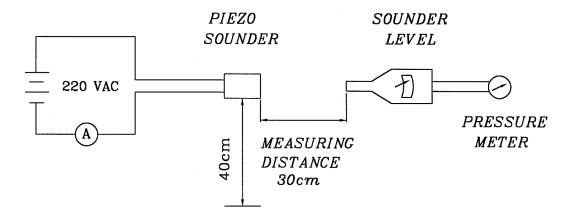


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MEASUREMENT METHOD

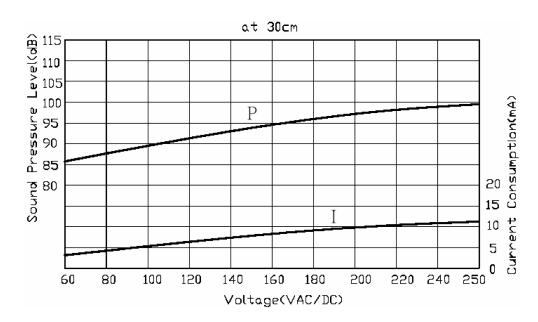


S.P.L. Measuring Circuit

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 amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each of		frequency/current consumption
			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 m	nm 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.	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.
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 0.5hr 0.5hr 3hours	



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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

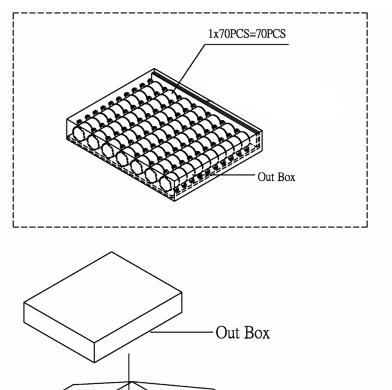


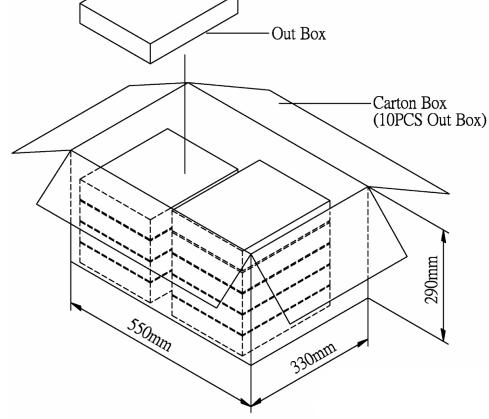
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PACKAGING





Out Box	310mmx248mmx49mm	1x70PCS=70PCS
Carton Box	550mmx330mmx290mm	70PCSx10=700PCS

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CPE-422AC