

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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date 11/12/2007

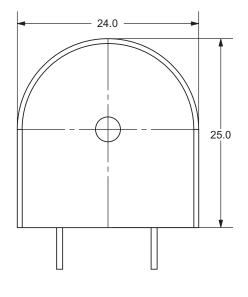
PART NUMBER: CPE-522 DESCRIPTION: piezo audio indicators

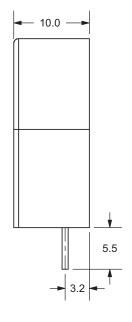
SPECIFICATONS

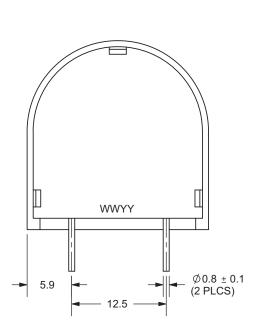
operating frequency	3.2 ± 0.5 KHz	
operating voltage range	3 ~ 20 V DC	
current consumption	10 mA max.	at 12 V DC
sound pressure level	75 db min.	at 30 cm/12 V DC
rated voltage	12 V DC	
tone	continuous	
operating tempurature	-30 ~ +115° C	
storage tempurature	-40 ~ +125° C	
dimensions	L25.0 x W24.0 x H10.0 mm	1
weight	3.7 g max.	
material	PC+10% glass (black)	
terminal	pin type (Au plating)	
RoHS	yes	

APPEARANCE DRAWING

tolerance: ±0.5 units: mm







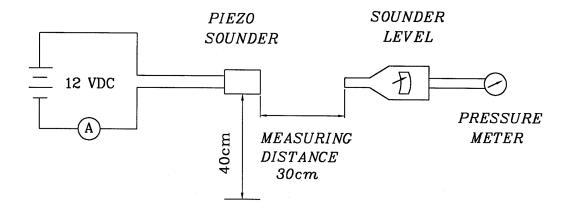


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PART NUMBER: CPE-522 DESCRIPTION: piezo audio indicators

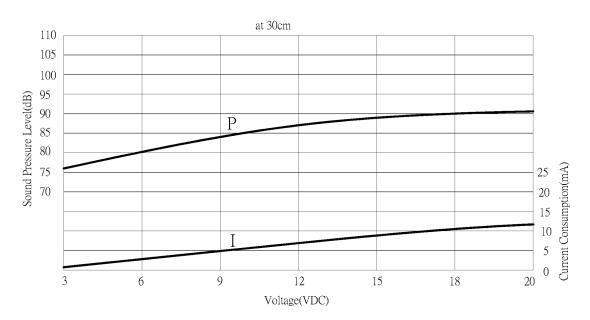
MEASUREMENT METHOD



S.P.L. Measuring Circuit

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

CURRENT CONSUMPTION/SOUND PRESSURE LEVEL





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PART NUMBER: CPE-522 DESCRIPTION: piezo audio indicators

MECHANICAL CHARACTERISTICS

sin for 90% min. of the lead terminals will be wet with solder (except the edge of the terminal).
(except the edge of the terminal).
o 1.5mm from
- ::=:::::: :: =::::
0 ±5°C for No interference in operation.
±1 seconds.
is No damage or cutting off.
rection.
er applying The value of oscillation
th 10 to frequency/current consumption
to each of should be ±10% of the initial
2 hours. measurements. The SPL should
eight of be within ±10dB compared with
board 3 the initial measurement.
of 9 drops.
is applied to No damage or cutting off.
oom
I to case No damage or cutting off.
o) i re it to

Notes: 1. Not recommended for wave soldering

ENVIRONMENT TEST

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +125°C for 240 hours.	
low temp. test	After being placed in a chamber at -40°C 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.
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: +25°C +25°C +25°C -40°C 0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25 3hours	



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date 11/12/2007

PART NUMBER: CPE-522 DESCRIPTION: piezo audio indicators

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 2 hours of	being placed at +25°C for 4
	continuous operation at +105°C with	hours. The value of the
	15 V applied.	oscillation frequency/current consumption should be ±10%
	2. Intermittent life test:	compared to the initial
	A duty cycle of 1 minute on, 5 minutes off, a	measurements. The SPL should
	minimum of 10,000 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

