imall

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!



Contact us

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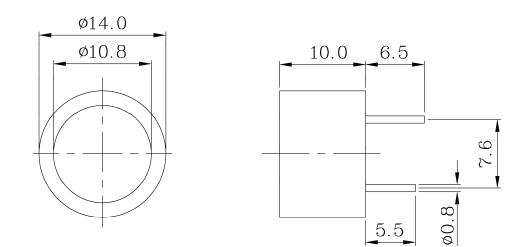
DESCRIPTION: piezo audio transducer

SPECIFICATONS

operating frequency	5 ± 0.5 kHz	
rated voltage	12 V dc	
operating voltage range	9~16 V dc	
current consumption	35 mA max.	at 12 V dc
sound pressure level	80 dB min.	at 30 cm/12 V dc
tone	continuous	at 12 V dc
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	ø14 x H10 mm	
weight	5 g max.	
material	PBT + 15% glass	
terminal	pin type	
RoHS	yes	
dustproof/waterproof level	IP67	IEC standard 529 edition 2.0(1989)

APPEARANCE DRAWING

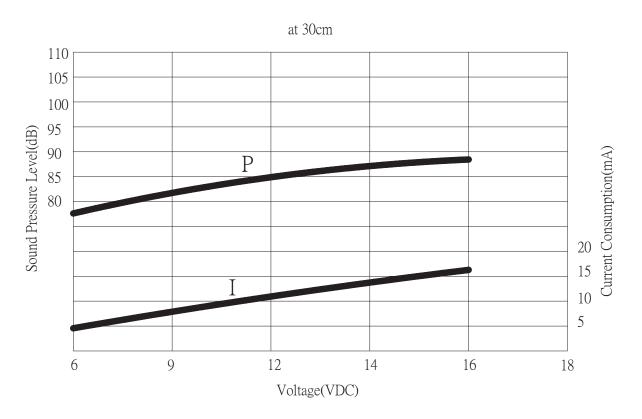
tolerance: ±0.5 units: mm



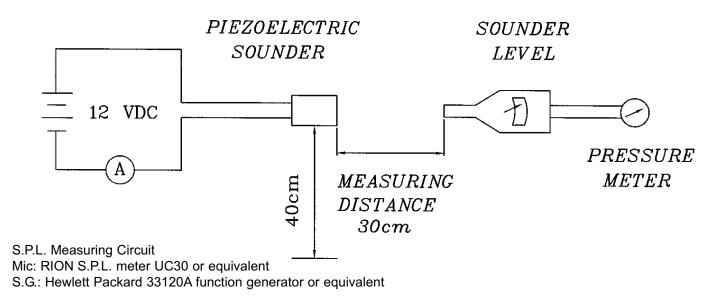


DESCRIPTION: piezo audio transducer

VOLTAGE: SOUND PRESSURE LEVEL / CURRENT CONSUMPTION



MEASUREMENT METHOD





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PART NUMBER: CPE-244

DESCRIPTION: piezo audio transducer

item	test condition	evaluation standard	
solderability ¹	Lead terminals are immersed in rosin for	90% min. of the lead terminals	
	5 seconds and then immersed in solder bath	will be wet with solder	
	of 270 ±5°C for 3 ±1 seconds.	(except the edge of the terminal).	
soldering heat resistance	Lead terminals are immersed up to 1.5 mm		
	from the buzzer's body in a solder bath of	No interference in operation.	
	300 ±5°C for 3 ±0.5 seconds or 260 ±5°C for		
	10 ±1 seconds.		
terminal mechanical strength	The force of 9.8 N (1 kg) will be applied for		
	10 seconds to each terminal in each axial	No damage or cutting off.	
	direction.		
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.		

Notes: 1. Not recommended for wave soldering

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: $\begin{array}{c} +95^{\circ}\text{C} \\ +25^{\circ}\text{C} \\ \hline & & & & & & & & & & & & & & & & & &$	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.



DESCRIPTION: piezo audio transducer

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 minute 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.

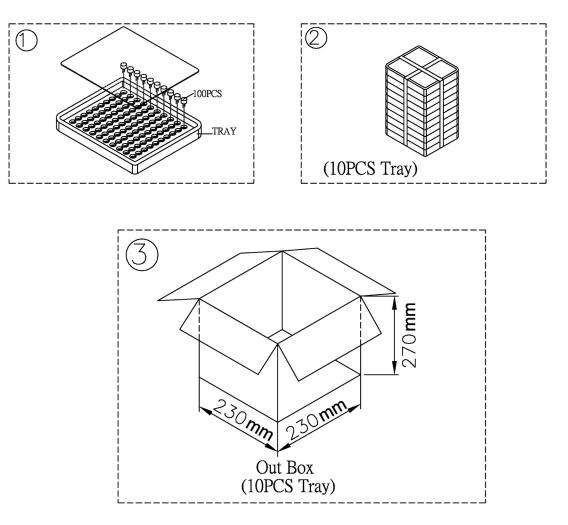
TEST CONDITIONS

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



DESCRIPTION: piezo audio transducer

PACKAGING



Tray		1x100PCS=100PCS
Out Box	230mmx230mmx270mm	10LAYERx100PCS=1000PCS