

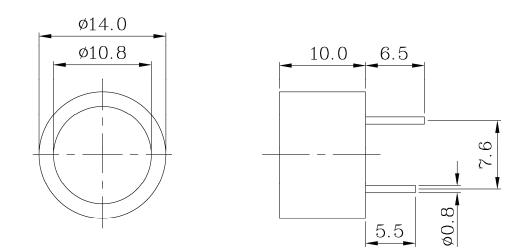
DESCRIPTION: piezo audio transducer

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

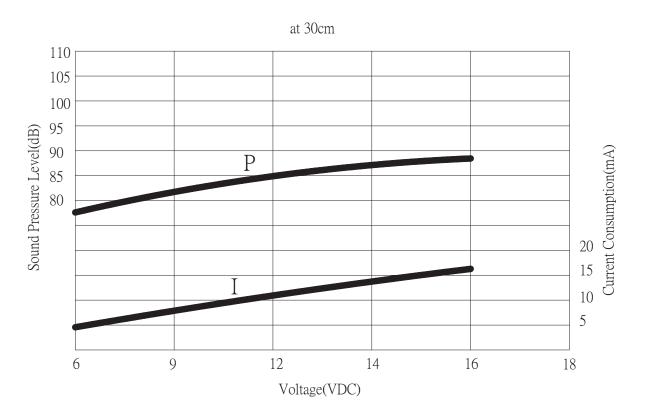
tolerance: ±0.5 units: mm



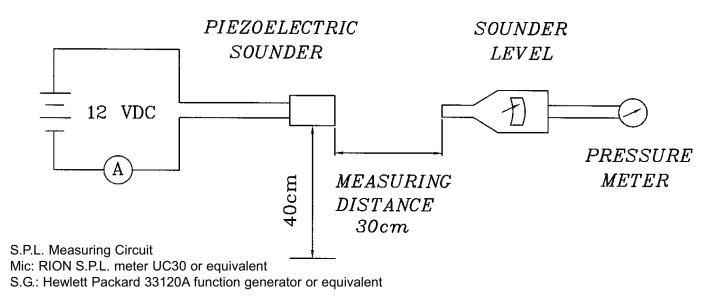


DESCRIPTION: piezo audio transducer

VOLTAGE: SOUND PRESSURE LEVEL / CURRENT CONSUMPTION



MEASUREMENT METHOD





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MECHANICAL CHARACTERISTICS

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.
	$300 \pm 5^{\circ}$ C for 3 ± 0.5 seconds or $260 \pm 5^{\circ}$ 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

test condition	evaluation standard
After being placed in a chamber at +95°C for 240 hours.	
After being placed in a chamber at -40°C for 240 hours.	
After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours.	_
The part shall be subjected to 5 cycles. One cycle will consist of: $\begin{array}{c} +95^{\circ}\text{C} \\ +25^{\circ}\text{C} \\ \hline -40^{\circ}\text{C} \\ \hline 0.5\text{hr} \\ 0.5\text{hr} \\ 0.25 \\ \hline 0.5\text{hr} \\ 0$	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.
	After being placed in a chamber at +95°C for 240 hours. After being placed in a chamber at -40°C for 240 hours. After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours. The part shall be subjected to 5 cycles. One cycle will consist of:



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RELIABILITY TEST

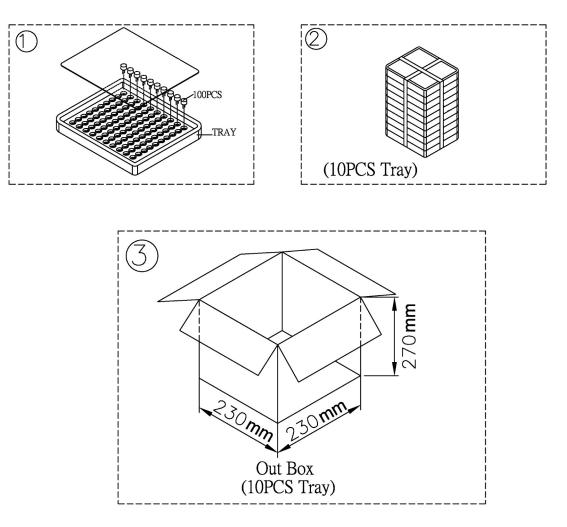
item	test condition	evaluation standard
operating (life test)	1. Continuous life test:	The buzzer will be measured after
	The part will be subjected to 48 hours of	being placed at +25°C for 4
	continuous operation at +70°C with rated	hours. The value of the
	voltage applied.	oscillation frequency/current
		consumption should be ±10%
	2. Intermittent life test:	compared to the initial
	A duty cycle of 1 minute on, 1 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



PACKAGING



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

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