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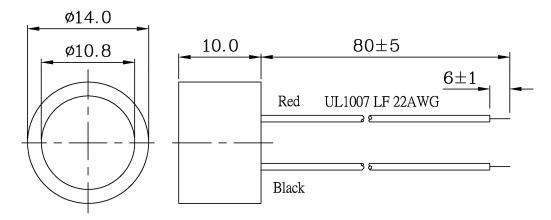
PART NUMBER: CPE-243 DESCRIPTION: piezo audio transducer

SPECIFICATIONS

5 + 0 5 kHz	
9 ~ 16 V dc	
35 mA max.	at 12 V dc
80 dB min.	at 30 cm/12 V dc
continuous	at 12 V dc
-30 ~ +85° C	
-40 ~ +95° C	
ø14 x H10 mm	
10 g max.	
ABS UL-94 1/16" HB high I	neat (black)
wire type	
yes	
IP67	IEC standard 529 edition 2.0(1989)
	35 mA max. 80 dB min. continuous -30 ~ +85° C -40 ~ +95° C Ø14 x H10 mm 10 g max. ABS UL-94 1/16" HB high I wire type yes

APPEARANCE DRAWING

tolerance: ±0.5 units: mm



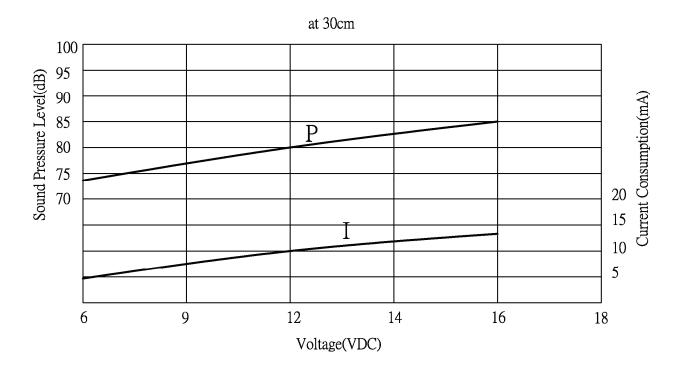


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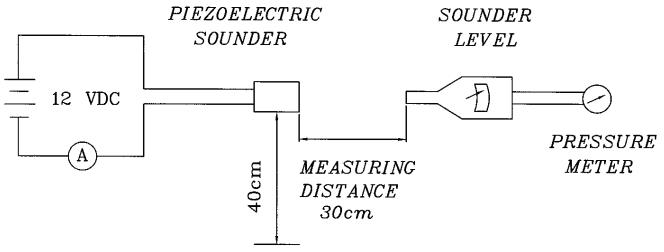
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VOLTAGE: SOUND PRESSURE LEVEL / CURRENT CONSUMPTION CHARACTERISTICS



MEASUREMENT METHOD



S.P.L. Measuring Circuit

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

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



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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 then immersed in solder bath	will be wet with solder
	of 270 ±5°C for 3 ±0.5 seconds.	(except the edge of the terminal).
lead wire pull strength	The pull force shall be applied to double lead	
	wire:	No damage or cutting off.
	Horizontal 3.0N for 30 seconds	
	Vertical 2.0N for 30 seconds	
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.	

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 0.5hr 0.5hr 0.5hr	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 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



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PACKAGING

PART NUMBER: CPE-243

