

page 1 of 5

date 11/12/2007

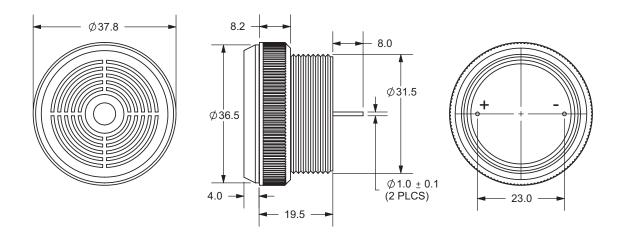
PART NUMBER: CPE-750P DESCRIPTION: panel mount piezo indicators

# **SPECIFICATIONS**

operating frequency	3.6 ± 0.5 KHz	
operating voltage range	4 ~ 28 V DC	
current consumption	7 mA max.	at 12 V DC
sound pressure level	80 db min.	at 30 cm/12 V DC
rated voltage	12 V DC	
tone	continuous	at 12 V DC
operating tempurature	-30 ~ +85° C	
storage tempurature	-40 ~ +95° C	
dimensions	Ø37.8 x H23.5 mm	
weight	18.5 g max.	
material	ABS UL-94 1/16" HB (gray)	
terminal	pin type (Sn plating)	
RoHS	yes	

# **APPEARANCE DRAWING**

tolerance: ±0.5 units: mm



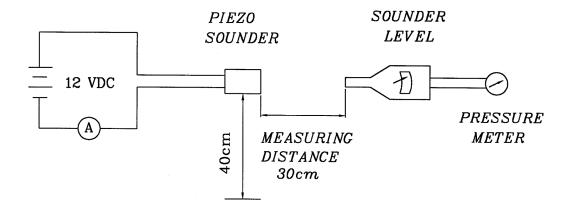


page 2 of 5

date 11/12/2007

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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 generator or equivalent

## **MECHANICAL CHARACTERISTICS**

item	test condition	evaluation standard		
solderability	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 1.5mm from			
	buzzer's body in solder bath of 300 ±5°C for	No interference in operation.		
	3 ±0.5 seconds or 260 ±5°C for 10 ±1 seconds.	-		
terminal mechanical strength	For 10 seconds, the force of 9.8N (1.0kg) is	No damage or cutting off.		
	applied to each terminal in axial 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.			



page 3 of 5

date 11/12/2007

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# **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.	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:  +95°C  -40°C  0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.25  3hours	

# **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 minutes 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



page 4 of 5

date 11/12/2007

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# **PACKAGING**

