

page 1 of 5

date 11/12/2007

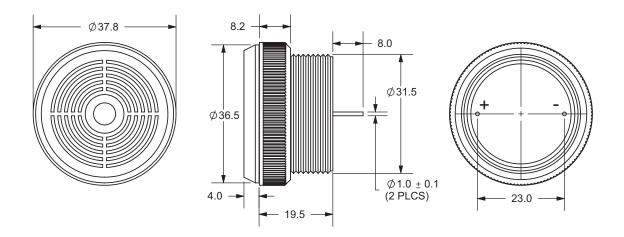
PART NUMBER: CPE-750P DESCRIPTION: panel mount piezo indicators

# **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



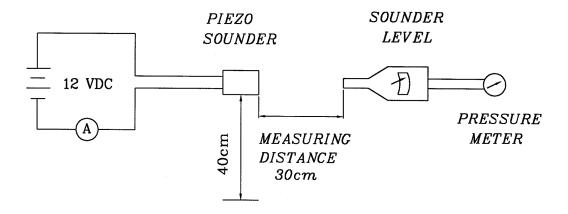


page 2 of 5

date 11/12/2007

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

## **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

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

# **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:  +25°C  +25°C  +25°C  +25°C  3hours	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.

# **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

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

# **PACKAGING**

