CUI INC

date 11/12/2007

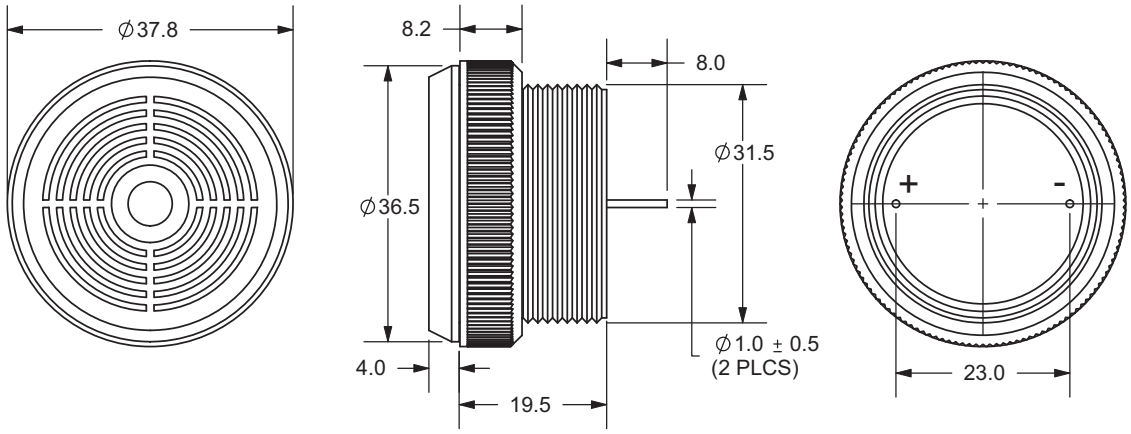
PART NUMBER: CPE-750PA **DESCRIPTION:** panel mount piezo indicators

SPECIFICATONS

operating frequency	3.6 ± 0.5 KHz	
operating voltage range	0.7 ~ 15 V DC	
current consumption	20 mA max. (12 mA typ)	at 12 V DC
sound pressure level	98 db min. (106 mA typ)	at 30 cm/12 V DC
rated voltage	12 V DC	
tone	continuous	at 12 V DC
operating tempurature	-30 ~ +80° C	
storage tempurature	-40 ~ +80° C	
dimensions	Ø36.5 x H23.5 mm	
weight	18.5 g max.	
material	ABS UL-94 1/16” HB (gray)	
terminal	pin type (Sn plating)	
RoHS	yes	

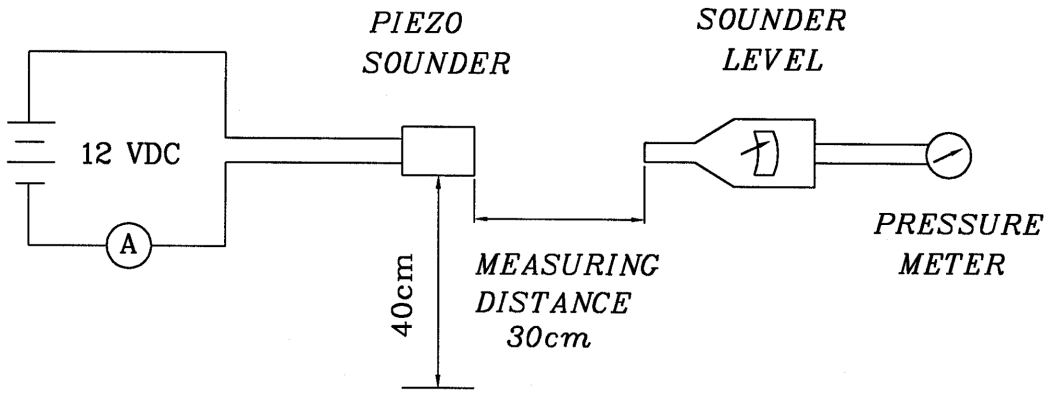
APPEARANCE DRAWING

tolerance: ±0.5
units: mm



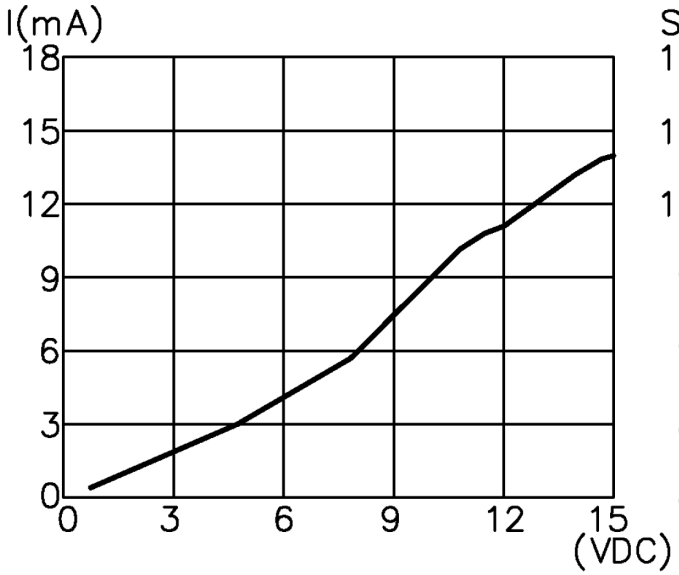
PART NUMBER: CPE-750PA **DESCRIPTION:** panel mount piezo indicators

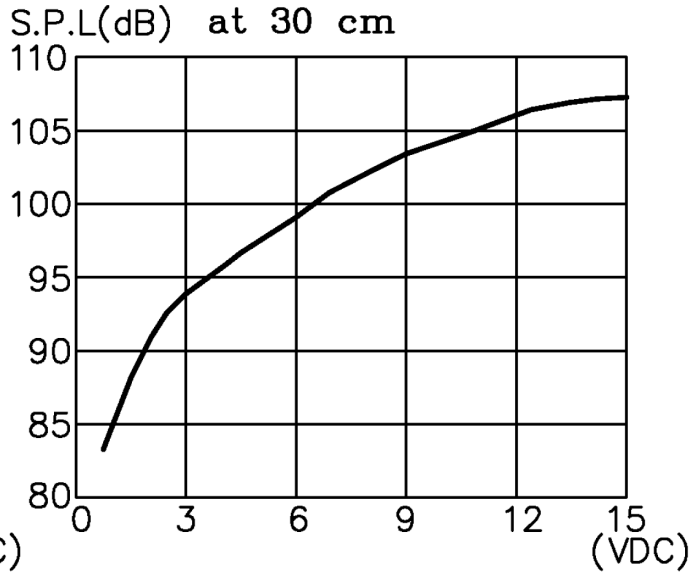
MEASUREMENT METHOD



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

CURRENT CONSUMPTION/SOUND PRESSURE LEVEL



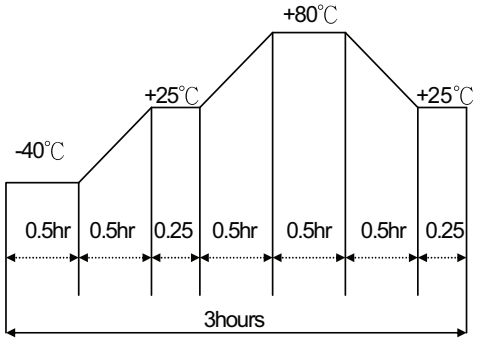


PART NUMBER: CPE-750PA **DESCRIPTION:** panel mount piezo indicators

MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 270 ±5°C for 3 ±1 seconds.	90% min. of the lead terminals will be wet with solder (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 3 ±0.5 seconds or 260 ±5°C for 10 ±1 seconds.	No interference in operation.
terminal mechanical strength	For 10 seconds, the force of 9.8N (1.0kg) is applied to each terminal in axial direction.	No damage or cutting off.
vibration	The buzzer shall be measured after applying a vibration amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each of the 3 perpendicular directions for 2 hours.	The value of oscillation frequency/current consumption should be ±10% of the initial measurements. The SPL should be within ±10dB compared with the initial measurement.
drop test	The part will be dropped from a height of 75 cm onto a 40 mm thick wooden board 3 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 +80°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: 	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.

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

RELIABILITY TEST

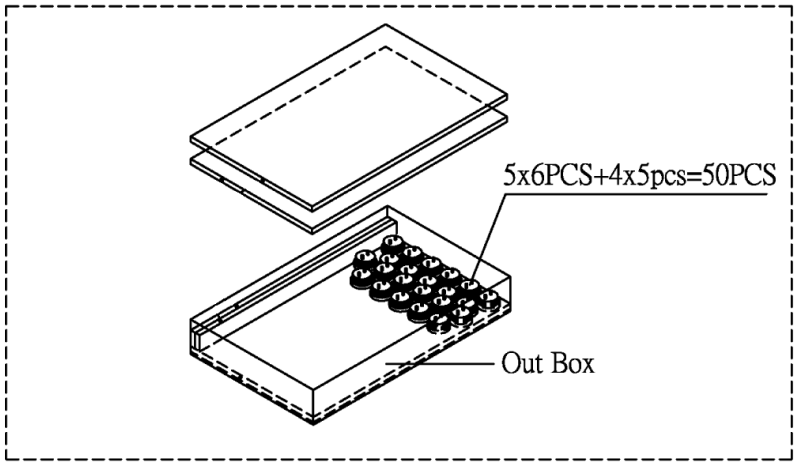
item	test condition	evaluation standard
operating (life test)	1. Continuous life test: The part will be subjected to 48 hours of continuous operation at +65°C with rated voltage applied. 2. Intermittent life test: A duty cycle of 1 minute on, 1 minutes off, a minimum of 5,000 times at room temp (+25 ±2°C) with rated voltage applied.	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.

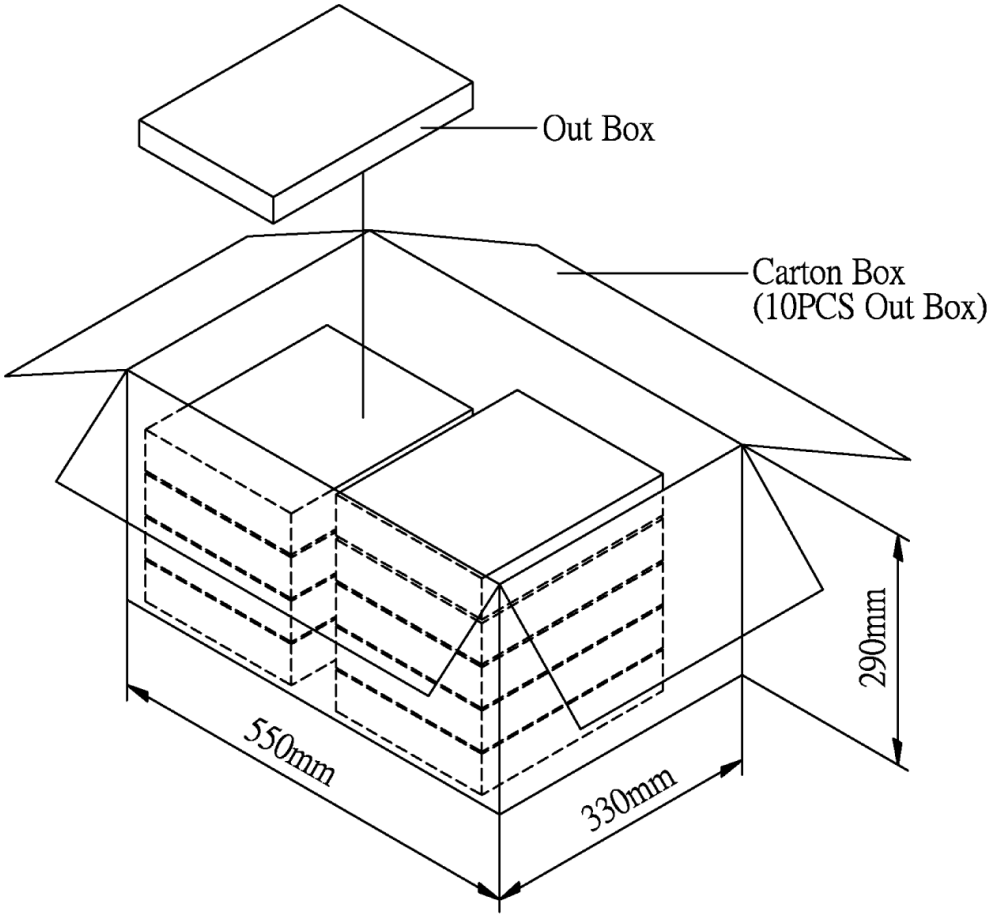
TEST CONDITIONS

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

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

PACKAGING





Out Box	310mmx248mmx49mm	1x50PCS=50PCS
Carton Box	550mmx330mmx290mm	50PCSx10=500PCS