

page 1 of 5 date 08/2008

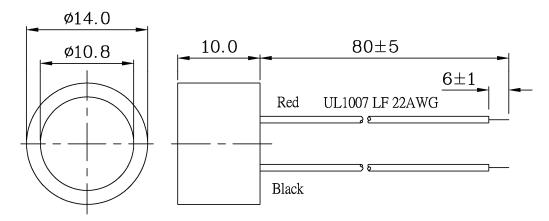
PART NUMBER: CPE-243 DESCRIPTION: piezo audio transducer

SPECIFICATIONS

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	10 g max.	
material	ABS UL-94 1/16" HB high h	neat (black)
terminal	wire type	
RoHS	yes	
dustproof/waterproof level	IP67	IEC standard 529 edition 2.0(1989)

APPEARANCE DRAWING

tolerance: ±0.5 units: mm

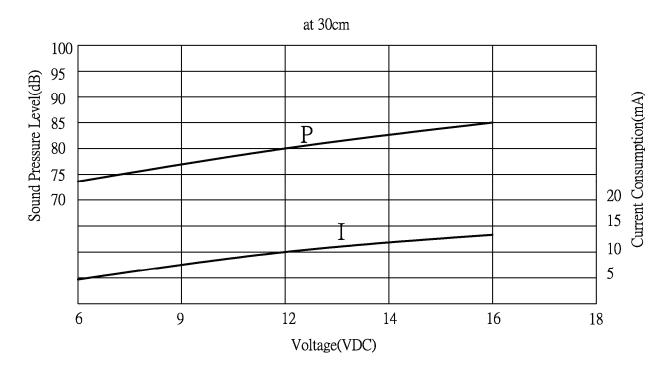




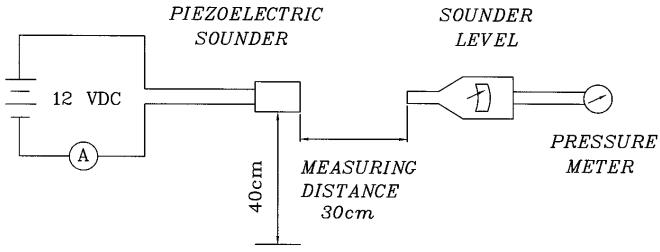
page 2 of 5 date 08/2008

PART NUMBER: CPE-243 DESCRIPTION: piezo audio transducer

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



page 3 of 5 **date** 08/2008

PART NUMBER: CPE-243 **DESCRIPTION:** piezo audio transducer

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.	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.	
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 0.25		



page 4 of 5 **date** 08/2008

PART NUMBER: CPE-243 DESCRIPTION: piezo audio transducer

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

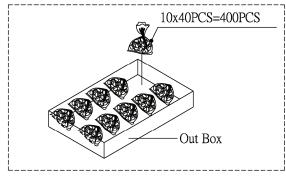
standard test condition	a) tempurature: +5 ~ +35°C	b) humidity: 45 - 85%	c) pressure: 860-1060 mbar
judgement test condition	a) tempurature: +25 ±2°C	b) humidity: 60 - 70%	c) pressure: 860-1060 mbar

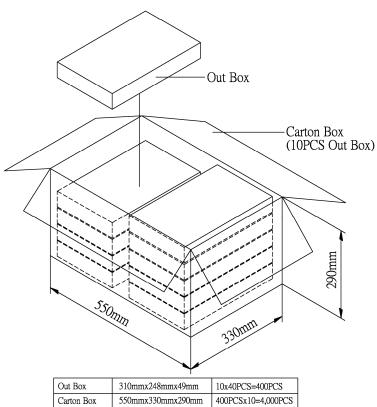


page 5 of 5 date 08/2008

PART NUMBER: CPE-243 DESCRIPTION: piezo audio transducer

PACKAGING





AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

> Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com