

Description: piezo audio transducer

Date: 9/19/2006

Unit: mm

Page No: 1 of 5

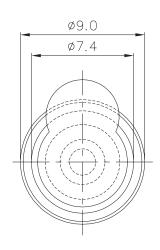


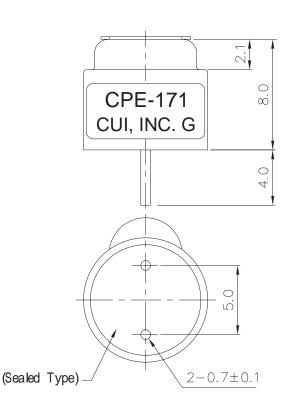
Specifications

Operating voltage	30 Vp-p max.	
Current consumption	4 mA max.	at 10 Vp-p, square wave, 2.8 KHz
Sound pressure level	75 db min.	at 10 cm / 10 Vp-p, square wave, 2.8 KHz
Electrostatic capacity	5,600 pF ±30%	at 120 Hz / 1 V
Operating tempurature	-30 ~ +85° C	
Storage tempurature	-40 ~ +95° C	
Dimensions	ø9.0 x H8.0 mm	
Weight	0.52 g max.	
Material	PBT+15% Glass (Black)	
Terminal	Pin type (Au Plating)	
RoHS	yes	

Appearance Drawing

Tolerance: ±0.5







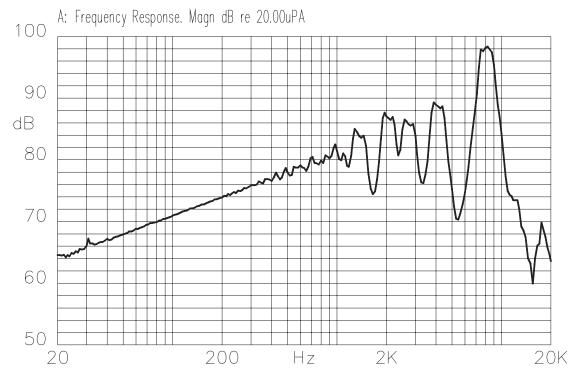
Description: piezo audio transducer

Date: 9/19/2006

Unit: mm

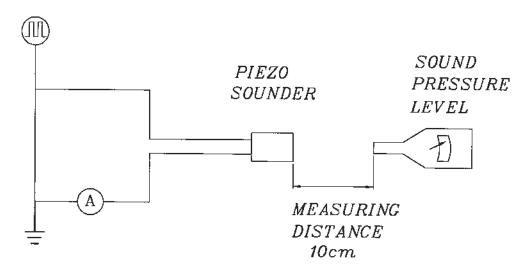
Page No: 2 of 5

Typical Frequency Response Curve



Measurement Method

S.P.L. Measuring Circuit Input Signal: 10Vp-p,2.8kHz, Square Wave



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

S.G: Hewlett Packard 33120A Function Generator or equivalent



Description: piezo audio transducer

Date: 9/19/2006

Unit: mm Page No: 3 of 5

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. (Except
	of 270 ±5°C for 3 ±1 seconds.	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 or	No interference in operation.
	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	
	a vibration amplitude of 1.5 mm with 10 to	The value of oscillation
	55 Hz band of vibration frequency to each of	frequency/current consumption
	the 3 perpendicular directions for 2 hours.	should be ±10% of the initial
Drop Test	The part will be dropped from a height of	measurements. The SPL should
	75 cm onto a 40 mm thick wooden board 3	be within ±10dB compared with
	times in 3 axes (X, Y, Z) for a total of 9 drops.	the initial measurement.

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	After being placed in a chamber at +95°C for	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.
	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:	
	-40 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.25 3hours	



Description: piezo audio transducer

Date: 9/19/2006

Unit: mm Page No: 4 of 5

Reliability Test

Item	Test Condition	Evaluation Standard	
Operating (Life Test)	Continuous life test:	The buzzer will be measured afte	
	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



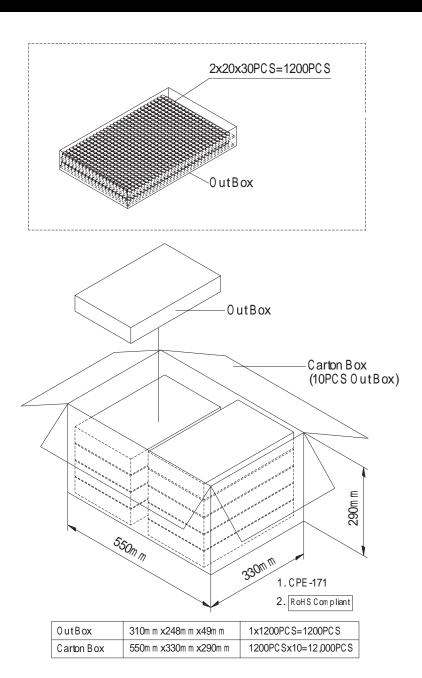
Description: piezo audio transducer

Date: 9/19/2006

Unit: mm

Page No: 5 of 5

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