

Description: piezo audio transducer

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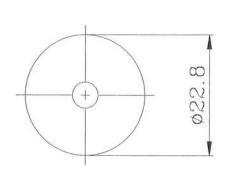


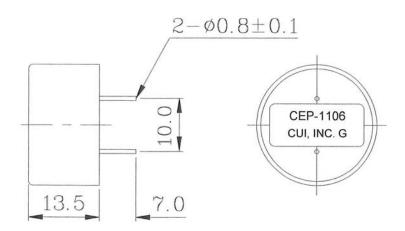
# **Specifications**

Operating voltage	30 Vp-p max.	
Current consumption	18 mA max.	at 10 Vp-p, square wave, 2.4 KHz
Sound pressure level	88 db min.	at 10 cm / 10 Vp-p, square wave, 2.4 KHz
Electrostatic capacitance	80,000 pF ±30%	at 1 KHz / 1 V
Operating temperature	-30 ~ +85° C	
Storage temperature	-40 ~ +95° C	
Dimensions	ø22.8 x H13.5 mm	
Weight	11.6 g max.	
Material	ABS PA-777D (Black)	
Terminal	Pin type (Sn Plating)	
RoHS	yes	

# **Appearance Drawing**

Tolerance: ±0.5





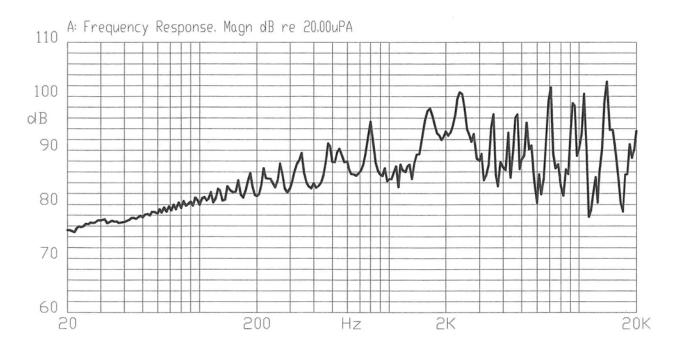


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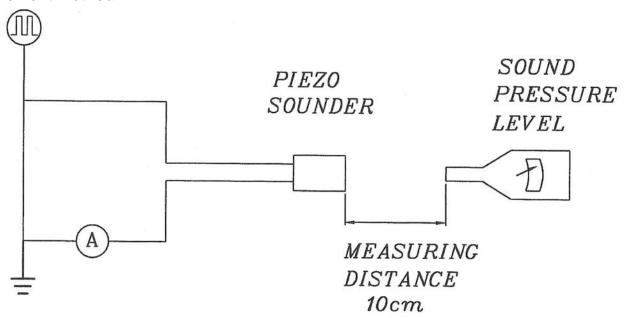
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# **Typical Frequency Response Curve**



### **Measurement Method**



S.P.L. Measuring Circuit

Input Signal: 10 V p-p, 2.4 KHz, Square Wave

Mic: RION UC 30

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



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### **Mechanical Characteristics**

Item	Test Condition	<b>Evaluation Standard</b>	
Solderability <sup>1</sup>	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 for	No interference in operation.	
	3 ±0.5 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 should 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.		

Notes: 1. Not recommended for wave soldering

### **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  3hours	



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**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



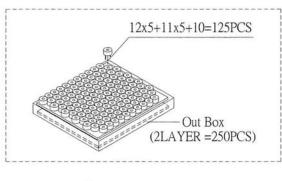
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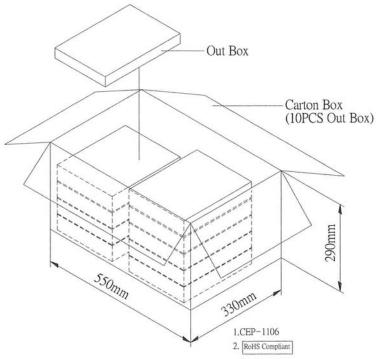
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# **Packaging**





 Out Box
 310mmx248mmx49mm
 2x125PCS=250PCS

 Carton Box
 550mmx330mmx290mm
 250PCSx10=2,500PCS

# AMEYA360 Components Supply Platform

# **Authorized Distribution Brand:**

























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