

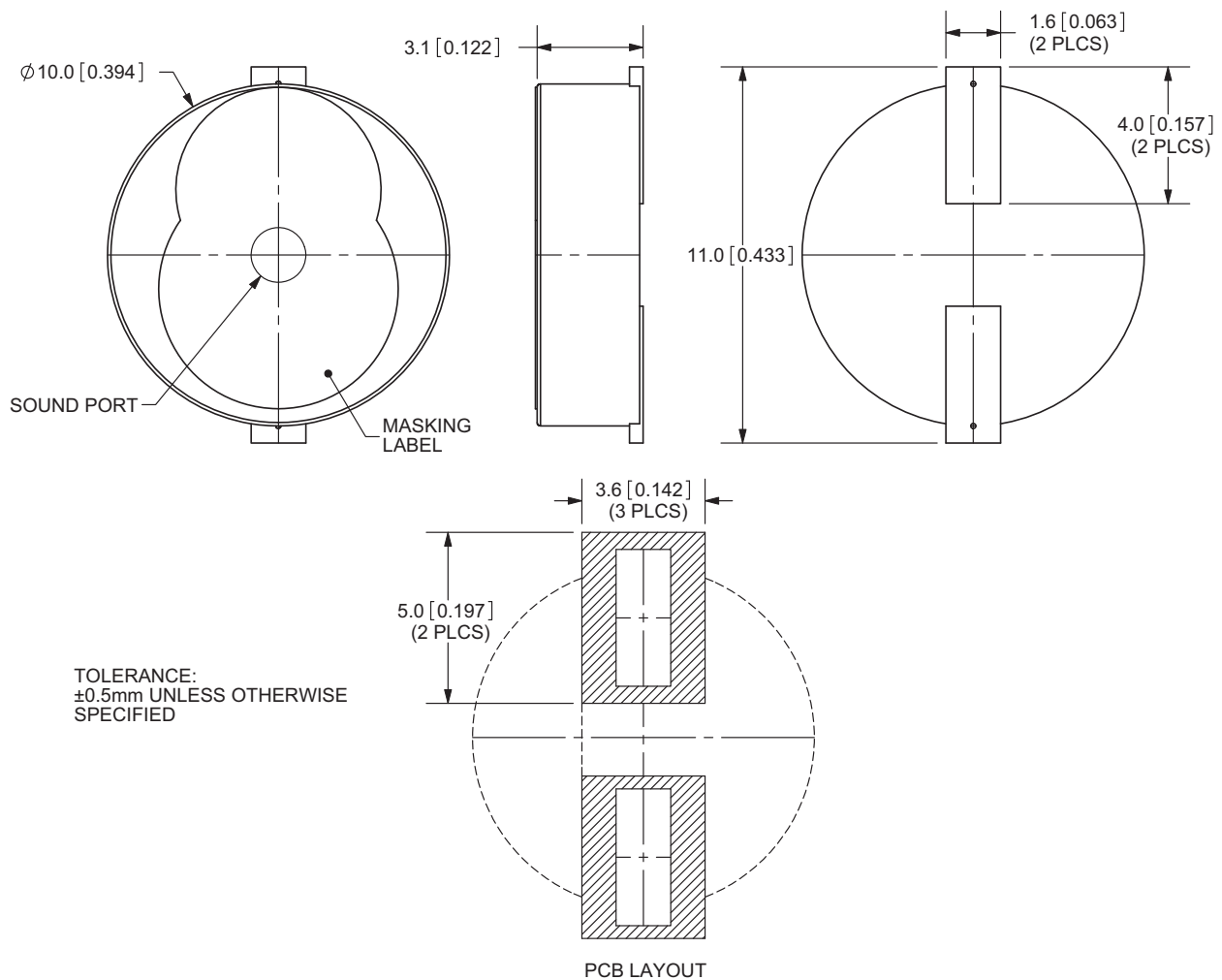
PART NUMBER: CMT-1075

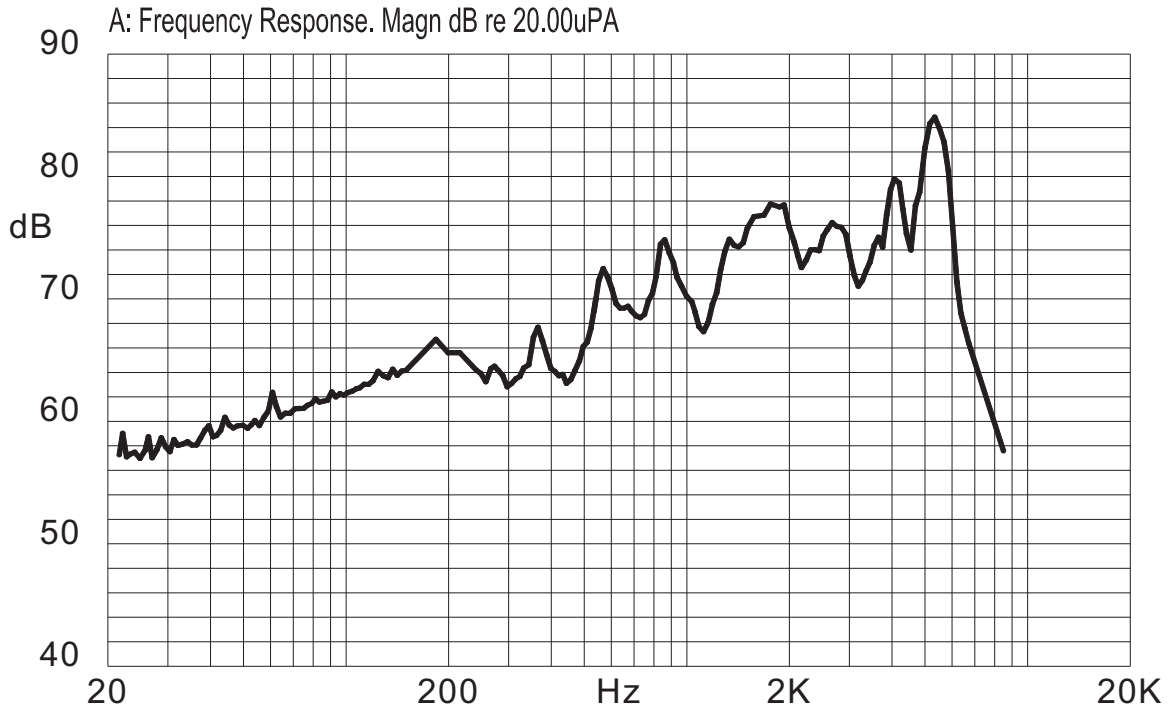
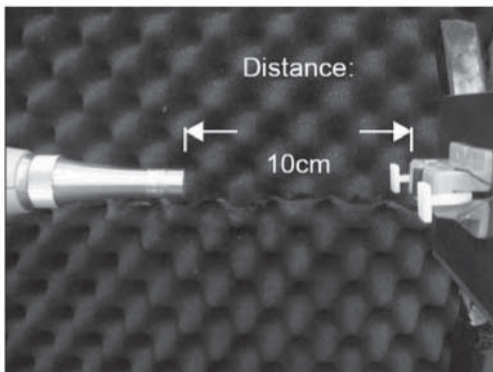
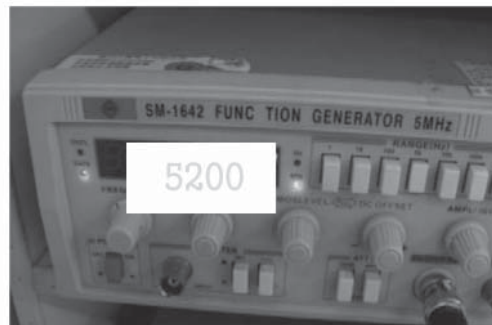
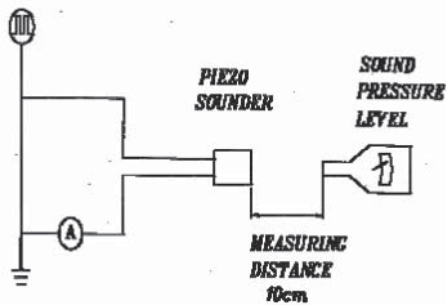
DESCRIPTION: PIEZO AUDIO TRANSDUCER

## SPECIFICATIONS

parameter	conditions/description	min	nom	max	units
operating voltage				25	V p-p
current consumption	at 5 V p-p, 5,200 Hz square wave			5	mA
sound pressure level	at 10 cm, 5 V p-p, 5,200 Hz square wave	75			dB
electrostatic capacity	at 100 Hz, 1 V	7,700	11,000	14,300	pF
operating temperature		-20		70	°C
storage temperature		-30		80	°C
dimenstions	ø10 x H3.1 mm				
weight				0.3	g
material	L.C.P. (black)				
terminal	SMD type (Au plating)				
RoHS	yes				

## APPEARANCE DRAWING



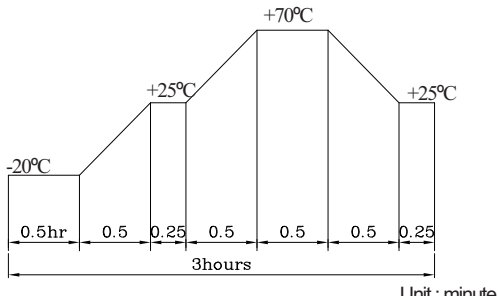
**PART NUMBER: CMT-1075**
**DESCRIPTION: PIEZO AUDIO TRANSDUCER**
**FREQUENCY RESPONSE CURVE**

**MEASUREMENT METHOD**


**PART NUMBER: CMT-1075**
**DESCRIPTION: PIEZO AUDIO TRANSDUCER**

## MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in a solder bath of +230 ±5°C for 2 ±0.5 seconds.	95% min. of the surface of the lead pads will be covered with solder.
soldering heat resistance	1. Refer to the Recommended Temperature Profile for Reflow Oven.	No interference in operation.
terminal mechanical strength	For 10 seconds, the force of 9.8 N (1.0 kg) is applied from behind the part which is soldered onto the PC Board.	No damage or cutting off
vibration test	The buzzer should be measured after a vibration amplitude of 1.55 mm with 10 ~ 55 Hz band of vibration frequency to each of the 3 perpendicular directions for 6 hours.	The value of the oscillation frequency should be ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the initial measurements.

## ENVIRONMENT TEST

item	test conditions	evaluation standard
high temperature test	After being placed in a chamber at +80°C for 96 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.
low temperature test	After being placed in a chamber at -30°C for 96 hours.	
humidity test	After being placed in a chamber at +40°C and 90 ±5% RH for 2 hours.	
temperature cycle test	The part will be subjected to 5 cycles. One cycle will consist of:	
	 <p style="text-align: right;">Unit : minute</p>	

## RELIABILITY TEST

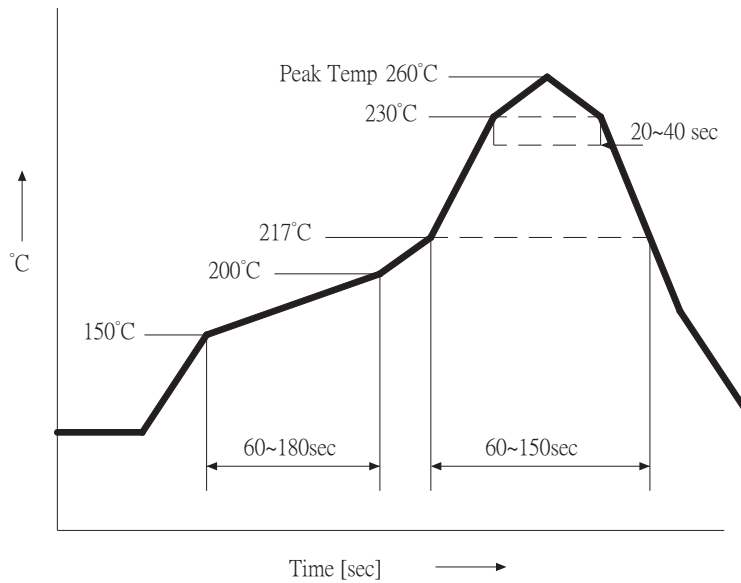
item	test condition	evaluation standard
operating (life test)	1. Continuous life test: The part will be subjected to 250 hours of continuous operation at 70°C with rated voltage applied.  2. Intermittent life test: A duty cycle of 1 minute on, 1 minute off, a minimum of 5,000 times at room temp (+25 ±2°C) with rated voltage applied.	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.

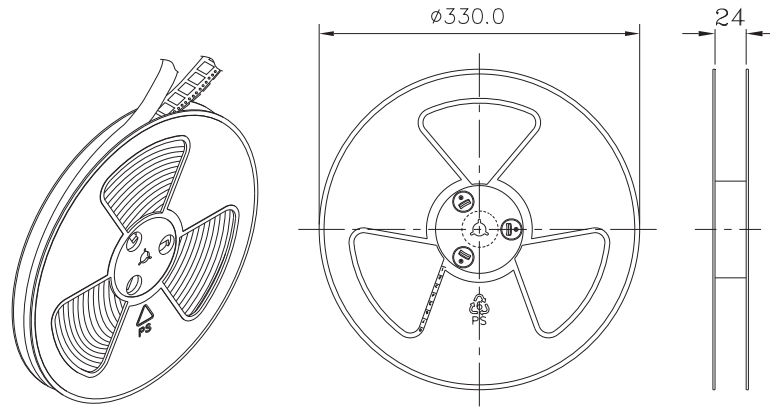
## TEST CONDITIONS

standard test conditions	a) Temperature: +5 ~ +35°C	b) Humidity: 45 ~ 85%	c) Pressure: 860 ~ 1060 mbar
judgement test conditions	a) Temperature: +25 ±2°C	b) Humidity: 60 ~ 70%	c) Pressure: 860 ~ 1060 mbar

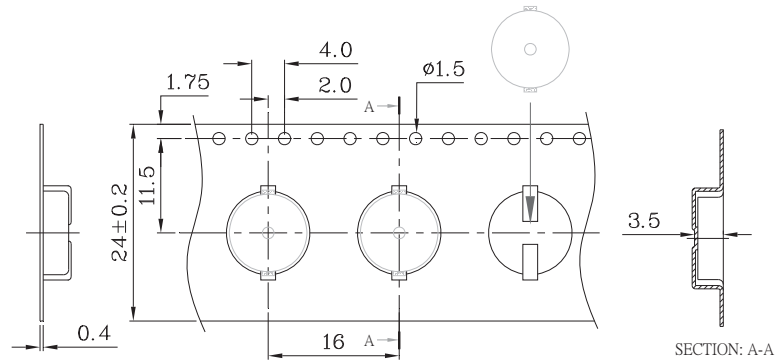
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**RECOMMENDED TEMPERATURE PROFILE FOR REFLOW OVEN**

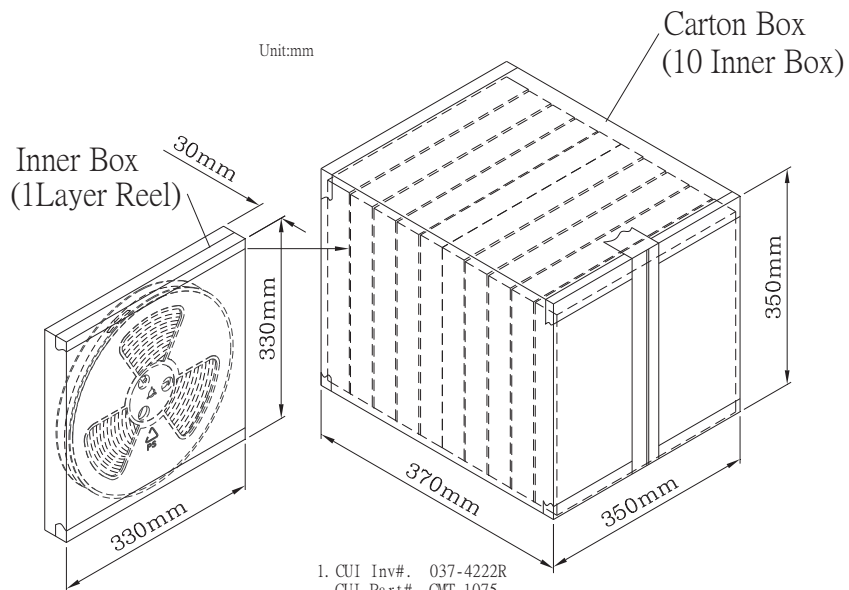
**PART NUMBER: CMT-1075**
**DESCRIPTION: PIEZO AUDIO TRANSDUCER**
**PACKAGING**


1 Reel : 800PCS



SECTION: A-A

Unit:mm



1. CUI Inv#. 037-4222R  
CUI Part#. CMT-1075
2. RoHS Compliant

Inner Box	330mmx330mmx30mm	1x1000PCS=800PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=8,000PCS