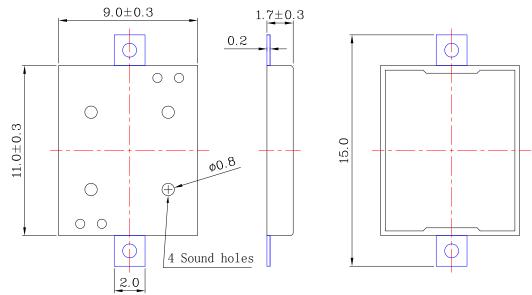
A. SCOPE

This specification applies Piezo buzzer, SPT-1117A-05041

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4100	Square Wave
2	Operating Voltage	Vр-р	1~25	
3	Rated Voltage	Vр-р	5	
4	Current Consumption	mA	MAX. 4.5	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 70	at 10cm at Rated Voltage
6	Electrostatic Capacity	рF	12000±30%	at 100Hz 1V
7	Operating Temperature	°C	-20~ +70	
8	Storage Temperature	°C	-30 ~ +80	
9	Dimension	mm	11.0 x 9.0 x H1.7	See appearance drawing
10	Weight (MAX)	gram	0.3	
11	Housing Material		PPA(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING





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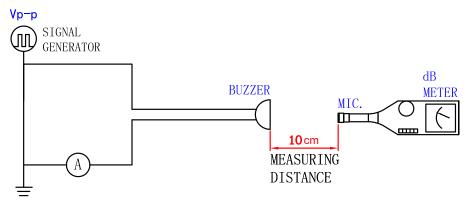
D.TESTING METHOD

Standard Measurement conditions

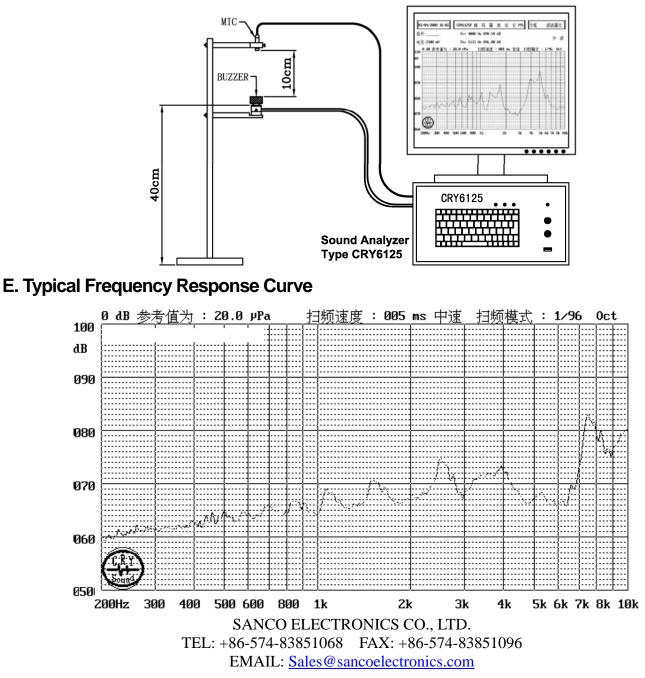
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



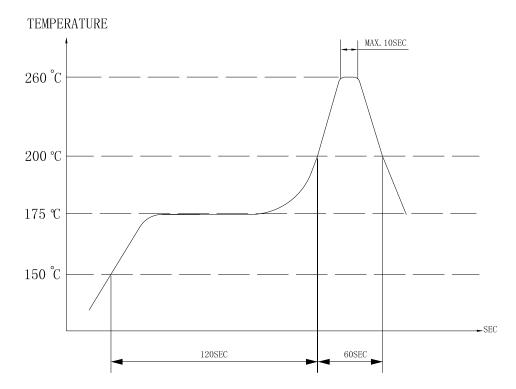
F. Soldering Condition

(1)Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed

after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2)Manual soldering

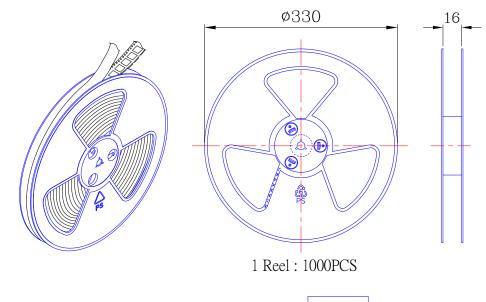
Manual soldering temperature 350 °C within 5 sec.

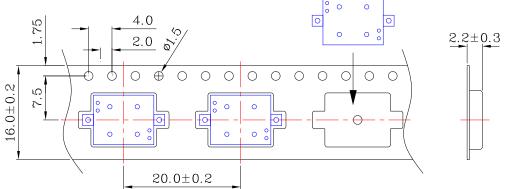
G. RELIABILITY TEST

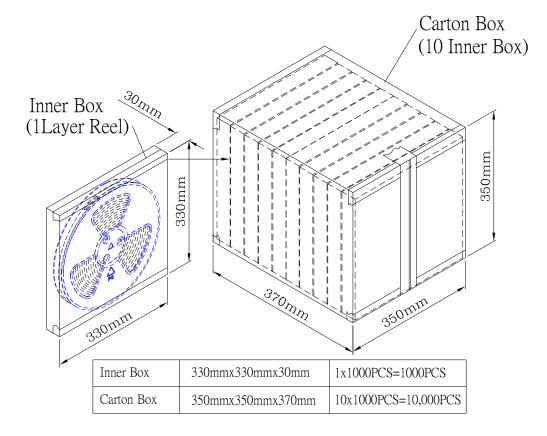
Ю.	ITEM	TEST CONDITION AND REQUIREMENT
	High Temperature	After being placed in a chamber with 80±2°C for 96 hours and then
1	Test (Storage)	being placed in normal condition for 2 hours.
	Test (Storage)	Allowable variation of SPL after test: ±10dB.
	Low Temperature	After being Placed in a chamber with -30±2°C for 96 hours and then
2	Test (Storage)	being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: ±10dB.
2		After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96
3	Humidity Test	hours and then being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: ±10dB.
		The part shall be subjected to 5 cycles. One cycle shall be consist of :
		+70°C
	Temperature Cycle Test	
		+25°C +25°C
4		
		- 20°C
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
		3hours
		Allowable variation of SPL after test: ±10dB.
_	Duran Tract	Drop on a hard wood board of 4cm thick, any directions ,6 times,
5	Drop Test	at the height of 75cm. Allowable variation of SPL after test: ±10dB.
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz
		band of vibration frequency to each of 3 perpendicular directions for
6	Vibration Test	2 hours.
		Allowable variation of SPL after test: ±10dB.
		Lead terminals are immersed in rosin for 5 seconds and then
7	Solderability	immersed in solder bath of $+300\pm5^{\circ}$ C for 3 ± 1 seconds.
7	Test	90% min. lead terminals shall be wet with solder
		(Except the edge of terminals).
	Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for
8	Pulling Test	10 seconds.
	I uning Iest	No visible damage and cutting off.

Standard Test Condition	:	a) Temperature : +5 ~ +35 $^\circ C$	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般测试条件	:	a) 温度 : +5~+35℃	b) 湿度 : 45-85%	c) 气压 : 860-1060mbar
Judgment Test Condition	:	a) Temperature : +25 \pm 2°C	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
争议时测试条件	:	a) 温度 : +25 ±2℃	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar

H. PACKING STANDARD







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