



PRODUCT SPECIFICATION

Product Name: SMD BUZZER

Part Number: SM12PT03BV5SH

Document No: _____

Date: 2021.06.01

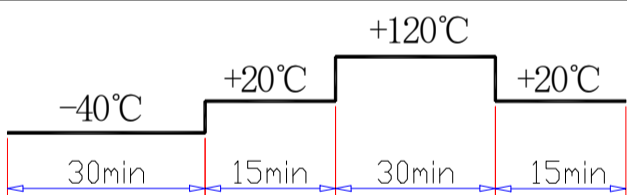
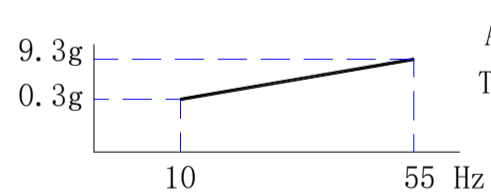
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1.ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	Vp-p	5
1-2	Operating Voltage	Vp-p	1-25
1-3	* Rated Current (Max)	mA	5
1-4	* Min Sound Output at 4.1kHz/10cm	dB	83
1-5	* Resonant Frequency	Hz	4100
1-6	Capacitance at 120Hz	pF	16000±30%
1-7	Operating Temperature	°C	-40~+85
1-8	Storage Temperature	°C	-40~+85
1-9	Weight	g	0.4
1-10	Housing Material		LCP
1-11	Tone Nature		Single
1-12	Connection		SMD
1-13	Lead Wire		UL1430 AWG24

* Value Applying at Rated Voltage (resonant frequency, 1/2 duty, square wave)

2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +120°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Low temp.	Storage in -40°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in +40°C±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	 <p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
2-5	Vibration test	 <p>Amplitude:1.5mm Time :1min/axis</p> <p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p>
2-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test	Soldering temp.:260±5°C Heat applying time: 3±0.5sec.
<p>PASS CRITERION : After these tests , the change of S.P.L shall be within ±5 dB .</p>		

3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

Temperature : $25\pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

Temperature : $15 \sim 35^{\circ}\text{C}$

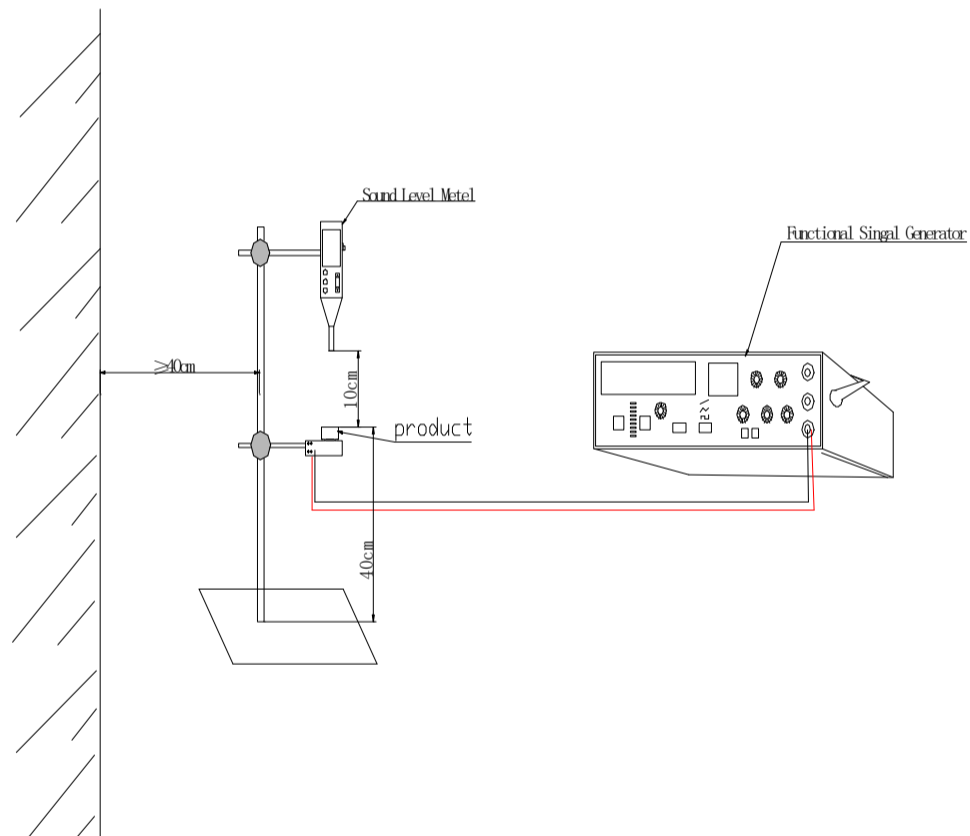
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

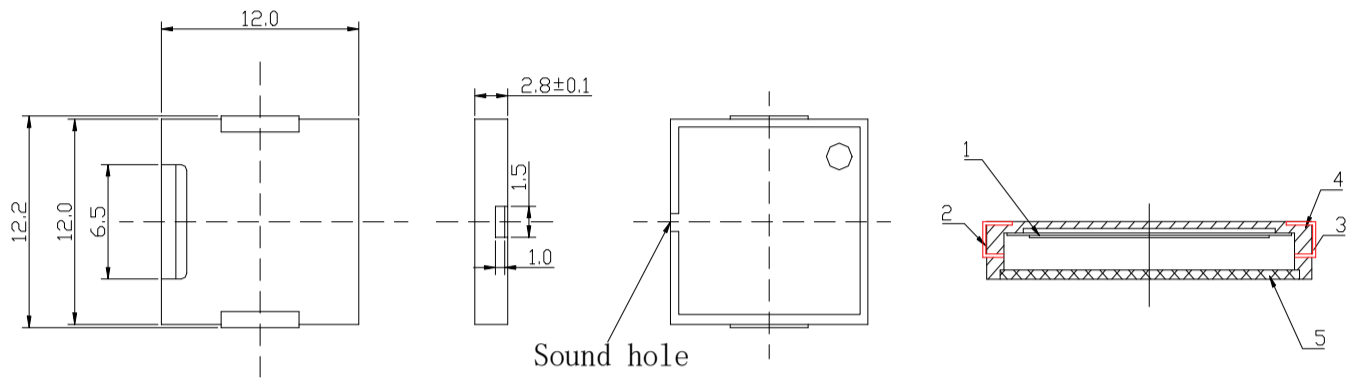
1.rated Voltage(Square wave):5V

2.Resonant Frequency:4100Hz



4.DIMENSIONS

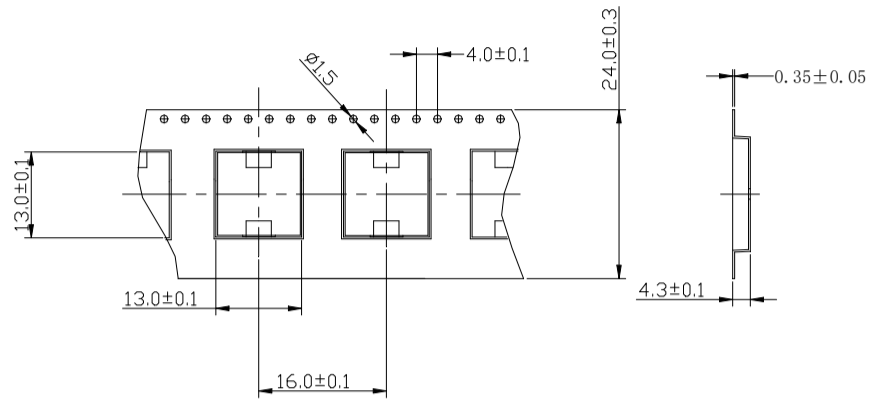
Unless otherwise specified, tolerance: ± 0.5 (unit: mm)



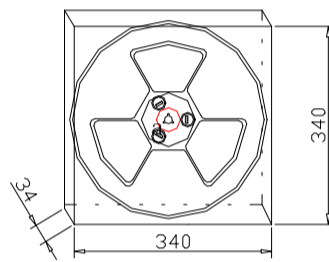
- 1) All parts must be meet to ROHS.
- 2) Reflow solder allowed and wash not allowed

7				
6				
5	Cover	1	LCP	
4	Housing	1	LCP	
3	Pin	1	Brass (DSn)	
2	Pin	1	Brass (DSn)	
1	Piezo element	1	Nickel	
Part No.	Part Name	Q'TY	Material	Remark

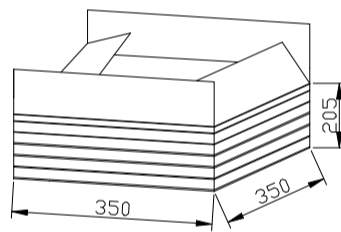
5.PACKING



1000PCS/SPOOL 每卷放1000只

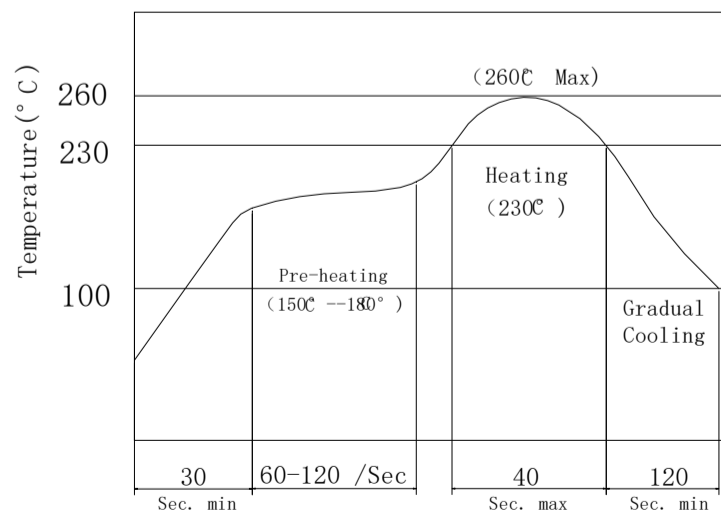


1ROLL CARRIER REEL/INNER BOX;1卷放入一内盒



5000PCS/CTN 每箱放5000只(5只内盒)

6.REFLOW SOLDER CURVE



7.CURVE

