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Component Specification

Product : Piezo Buzzer
Part Number : CA-P121230B-504080E
Drawing No : UBM405

Content

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2. Electrical & Acoustical Characteristics
3. Test Circuit
4. Frequency Characteristics
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1) General


This product applies to our standard acoustic components specification.
Please contact us for customer specific solutions.

2) Electrical & Acoustical Specifications

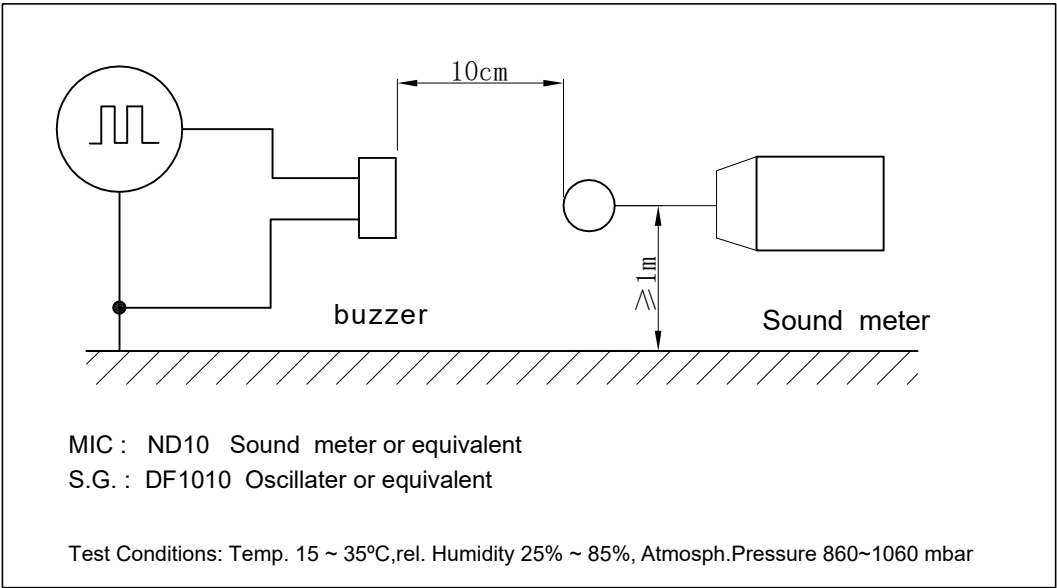
	Type	Specification
1	Rated Voltage	5 Vp-p
2	Operating Voltage	1~25 Vp-p
3	Max. Rated Current	5 mA
4	Resonance Frequency	4000 Hz
5	Min. Sound Pressure Level	80dB/5Vp-p/10cm
6	Capacitance	16000±30% pF
7	Operating Temperature Range	-40°+85 °C
8	Storage Temperature Range	-40°+105 °C *
9	Weight	0.40 g
10	Dimensions	12x12x3 mm
11	Housing Material	LCP

* to be confirmed

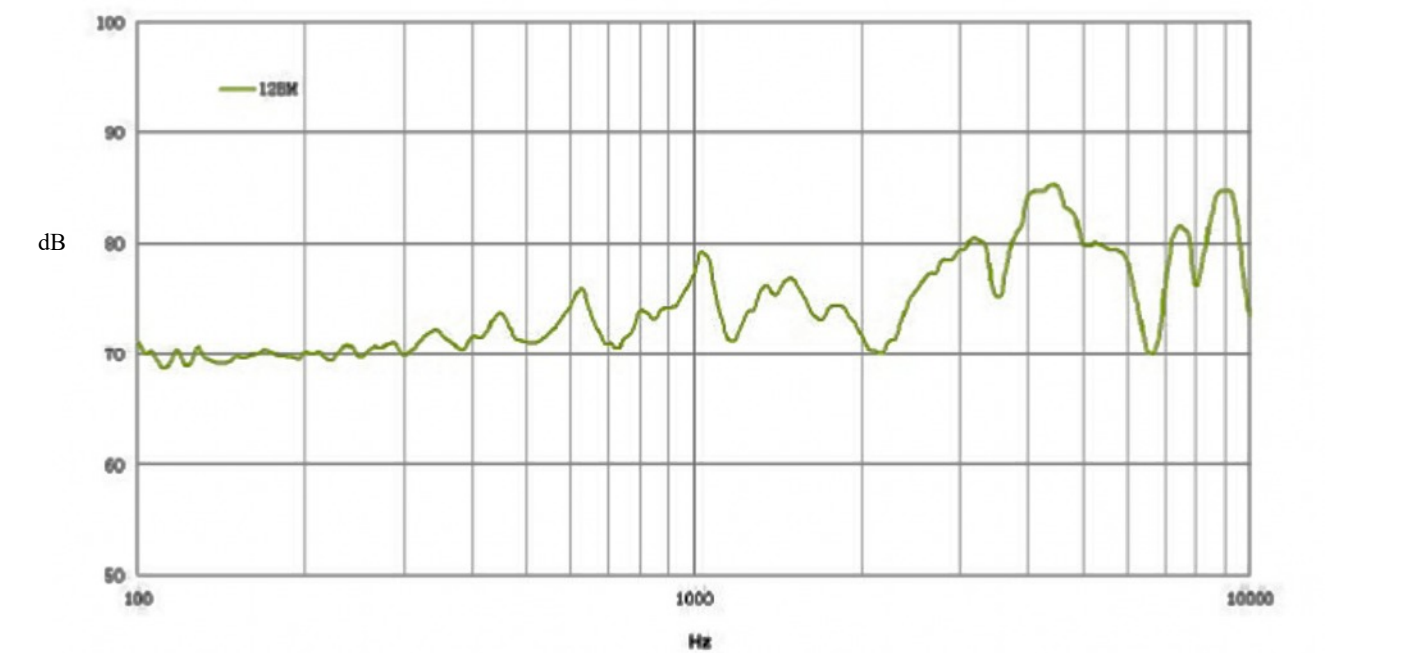
1. 1	12/10/2018	Extenden Temperature	L. Hus	T. Feng	G. Schubert
1. 0	20/07/2017	Production release	L. Hua	T. Feng	G. Schubert
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3) Test Circuit



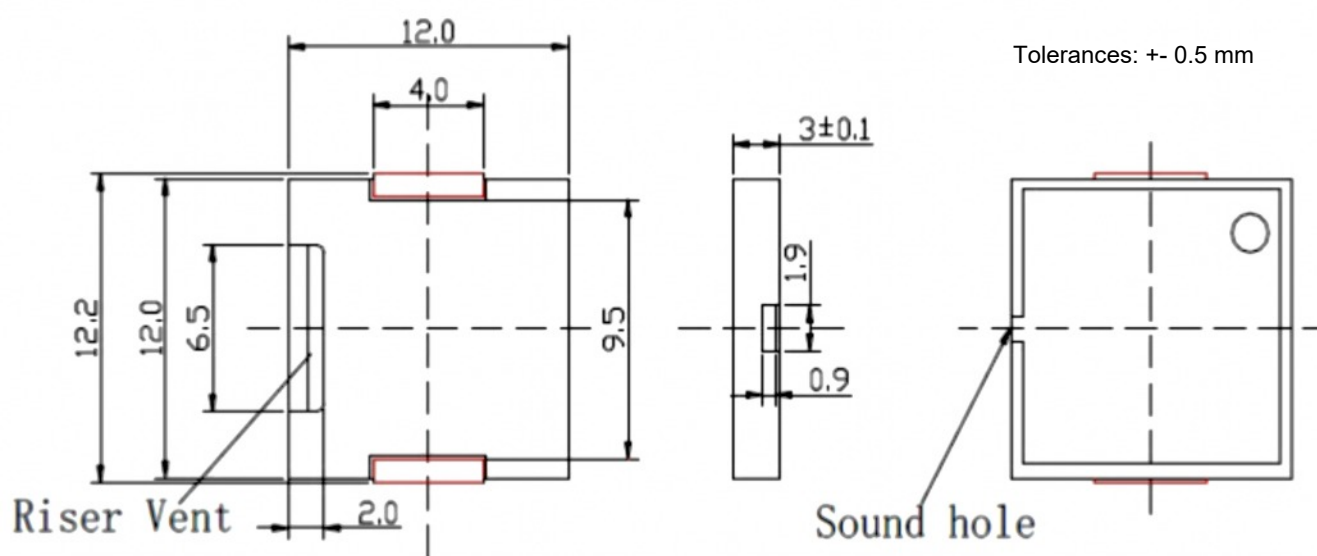
4) Frequency Characteristics



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5) Dimensions

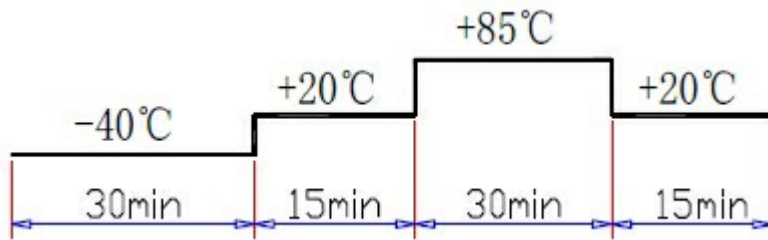


ROHS compliant


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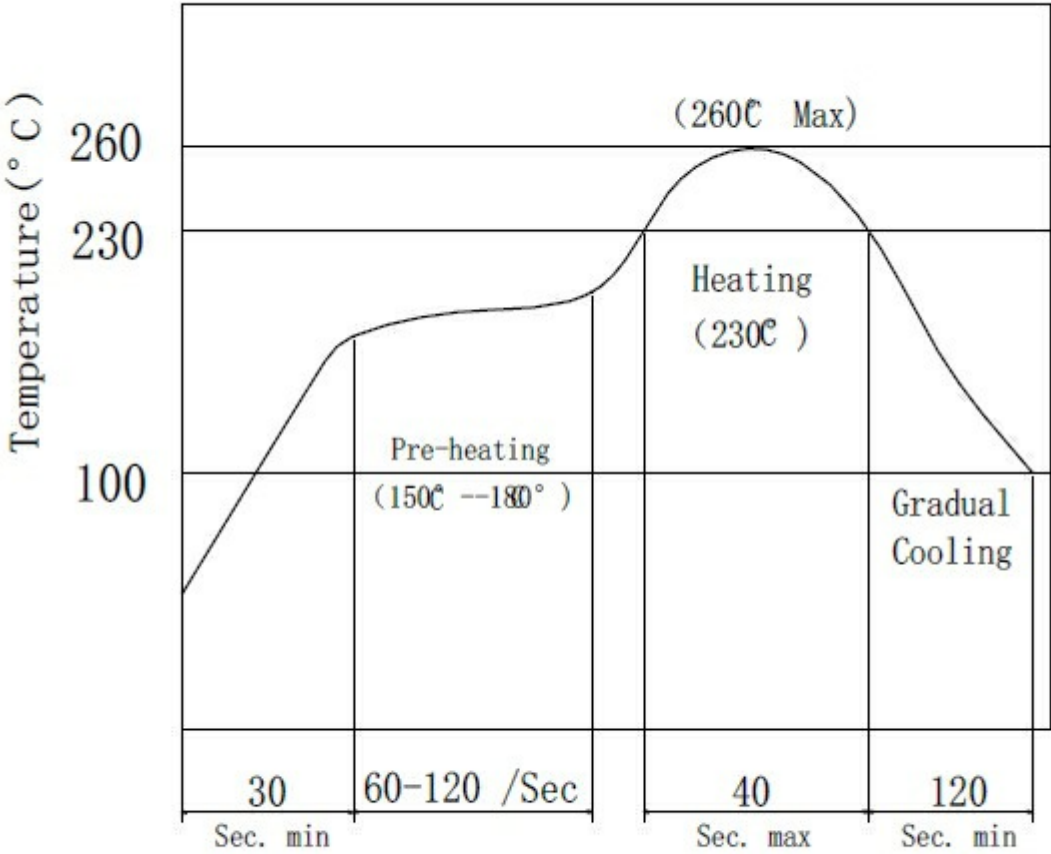
6) Reliability Test

No	Items	Specification
1	High Temperature Test (Storage)	After being placed in a chamber with $85\pm 2\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.
2	Low Temperature Test (Storage)	After being placed in a chamber with $-40\pm 2\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.
3	Humidity Test	After being placed in a chamber with 90-95% R.H. at $40\pm 2\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.
4	Temperature Cycle	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p> 
5	Drop Test	Drop on a hard wood board of 4cm thickness, any direction, 6 times, at the height of 75 cm
6	Vibration Test	A vibration with an amplitude of 1.5 mm and with a bandwidth of 10 to 55 Hz (vibration frequency) is applied to each of 3 perpendicular directions for 2 hours
7	Solderability	Soldering temperature $+260 \pm 5^{\circ}\text{C}$ Soldering time 3 ± 1 seconds
8	Terminal Strength Pulling Test	The force of 9.8 N (1.0 kg) is applied to each terminal in axial direction for 10 seconds.
9	Pass Criteria	After test the SPL shall be within : $\pm 5\text{ dB}$


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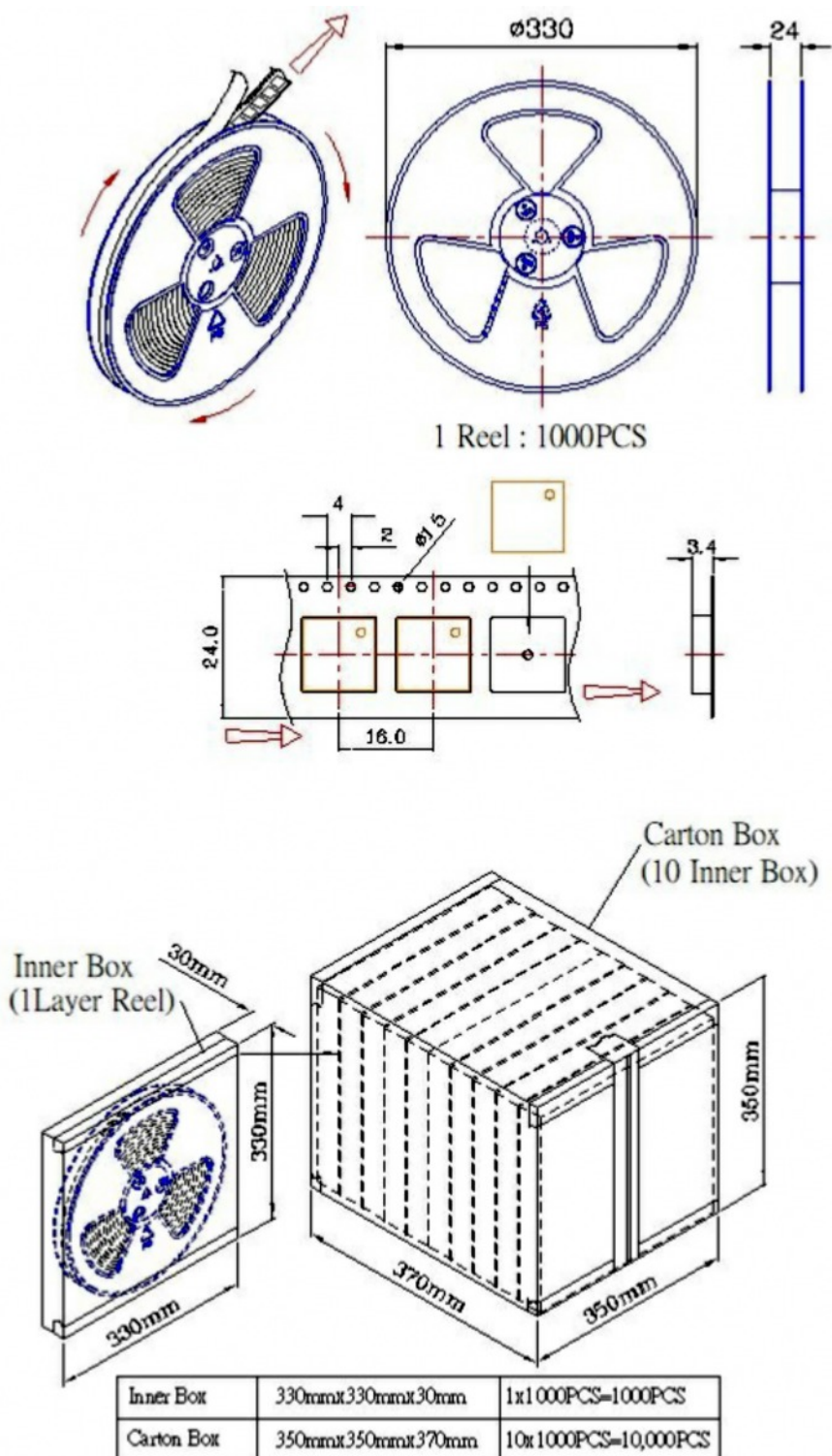
7) Reflow Soldering




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8) Packing



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9) Revision

Rev. No.	Date	Page	Description	Sign
1.0	20/07/2017	all	Production release	G. Schubert
11	12102018	All	Extended Temperature	G. Schubert

1. 1	12/10/2018	Extenden Temperature	L. Hus	T. Feng	G. Schubert
1. 0	20/07/2017	Production release	L. Hua	T. Feng	G. Schubert
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