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Component Specification

Product : Speaker
Part Number : CA-SM131340A-0807E
Drawing No : KFC8568

Content

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2. Electrical & Acoustical Characteristics
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1. General

Speaker highly suitable for industrial and automotive applications.

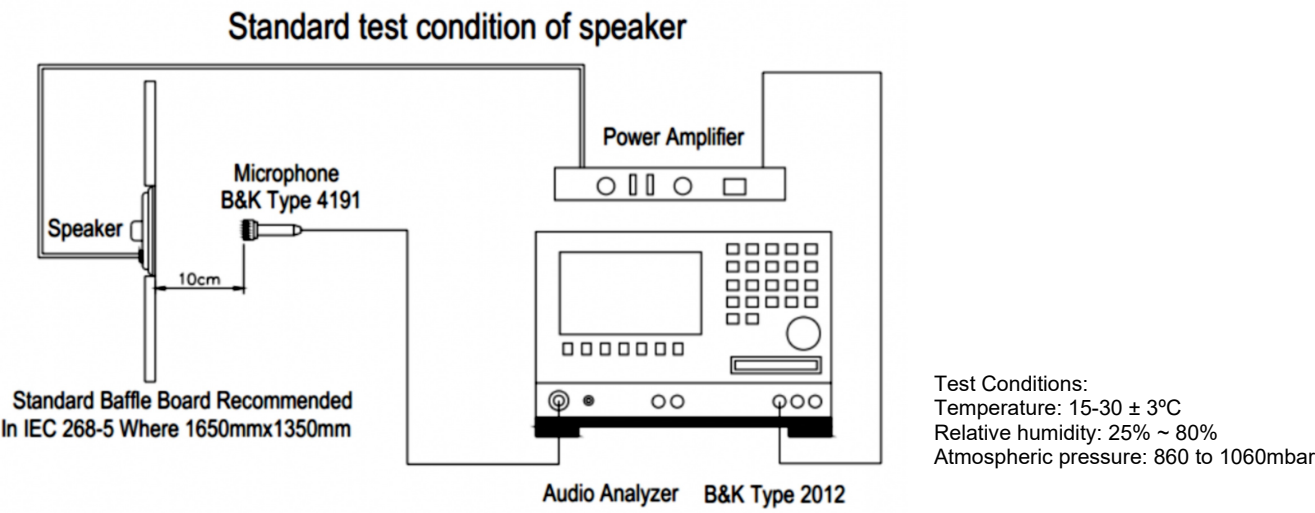
2. Electrical and Acoustic Characteristics

No	Items	Specification
	Impedance	$8\Omega \pm 15\%$ (1Vrms at 2KHz)
	Sound Pressure Level	88dB \pm 3dB (0.7W/0.1M at 1.0, 1.6, 2.0, 3.2kHz in average)
	Resonance Frequency	850Hz \pm 20%
	Frequency Range	F ₀ ~20KHz
	Input Power	Rated 0.7W/Max. 1.0W
	Distortion	<5% Max. at 2kHz/2Vrms
	Buzz and Rattle	Should not be audible buzzes, rattles when the 2.36Vrms sine wave signal swept at frequency range.
	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.
	Dimensions	13x13x4 mm
	Weight	1.1g
	Operating Temperature range	-40~+85°C without loss of function
	Store Temperature range	-40~+105°C without loss of function

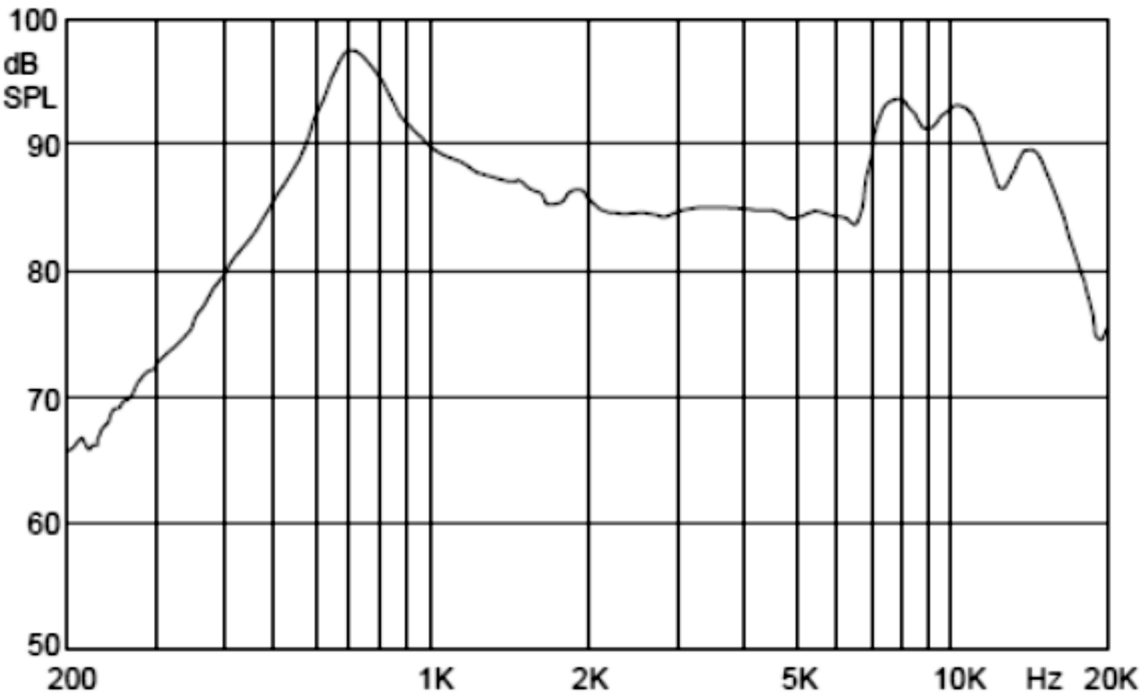
1. 2	01/10/2019	Temperature increase	L. Chen	S. Ge	G. Schubert
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3. Test Circuit



4. Frequency Response Curve




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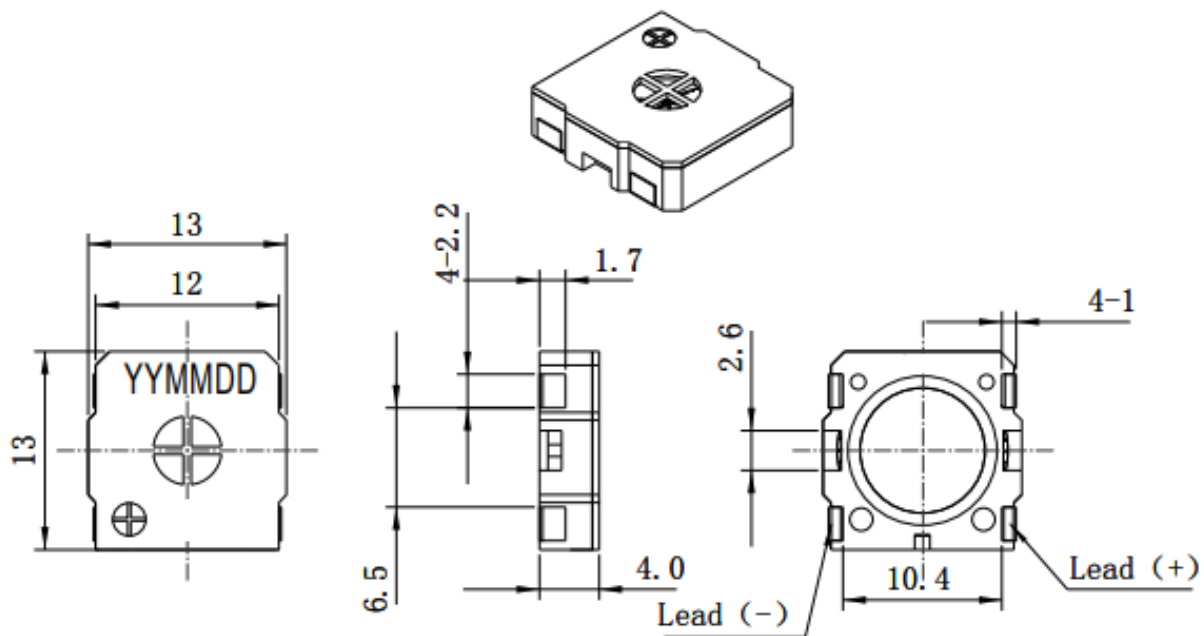
5. Reliability Test

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+105\pm 3^{\circ}\text{C}$ for 240 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with $-40\pm 3^{\circ}\text{C}$ for 240 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 3^{\circ}\text{C}$ for 240 hours and then being placed in natural condition for 3 hour, speaker shall be measured.
4	Thermal Shock Test	Temperature -20°C / $+40^{\circ}\text{C}$ Temperature Change 1 ± 2 /min Duration at $+65^{\circ}\text{C}$ 2h(each cycle) Duration at -25°C 2h(each cycle) Duration for one cycle 8h Cycles 10 All these tests above should be measured after leaving normal temperature for 2 hours
5	Vibration Test	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
6	Drop Test	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.
7	Load Test	After being applied loading white noise with input power 0.7W(2.36Vrms.) for 240 hours, then placed in natural condition for 1 hour, speaker shall be Measured.
8	Max Power Test	Max power 1 min. on - 2 min. off 10 cycles.


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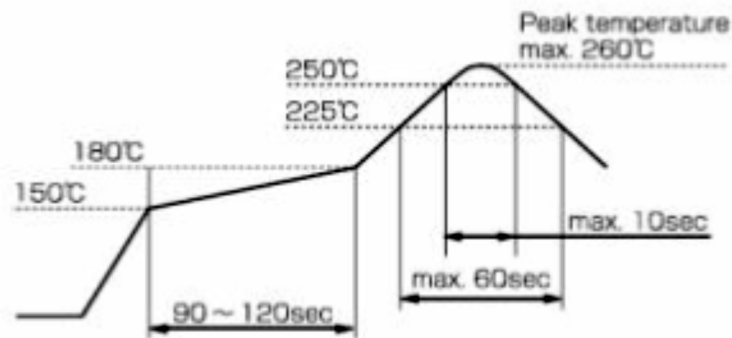
6. Dimension



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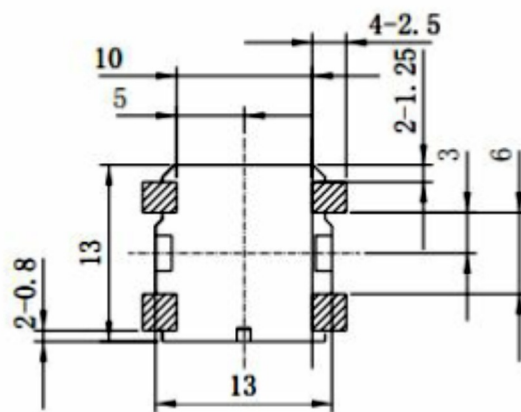
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7. Reflow Soldering




Only one Wave soldering

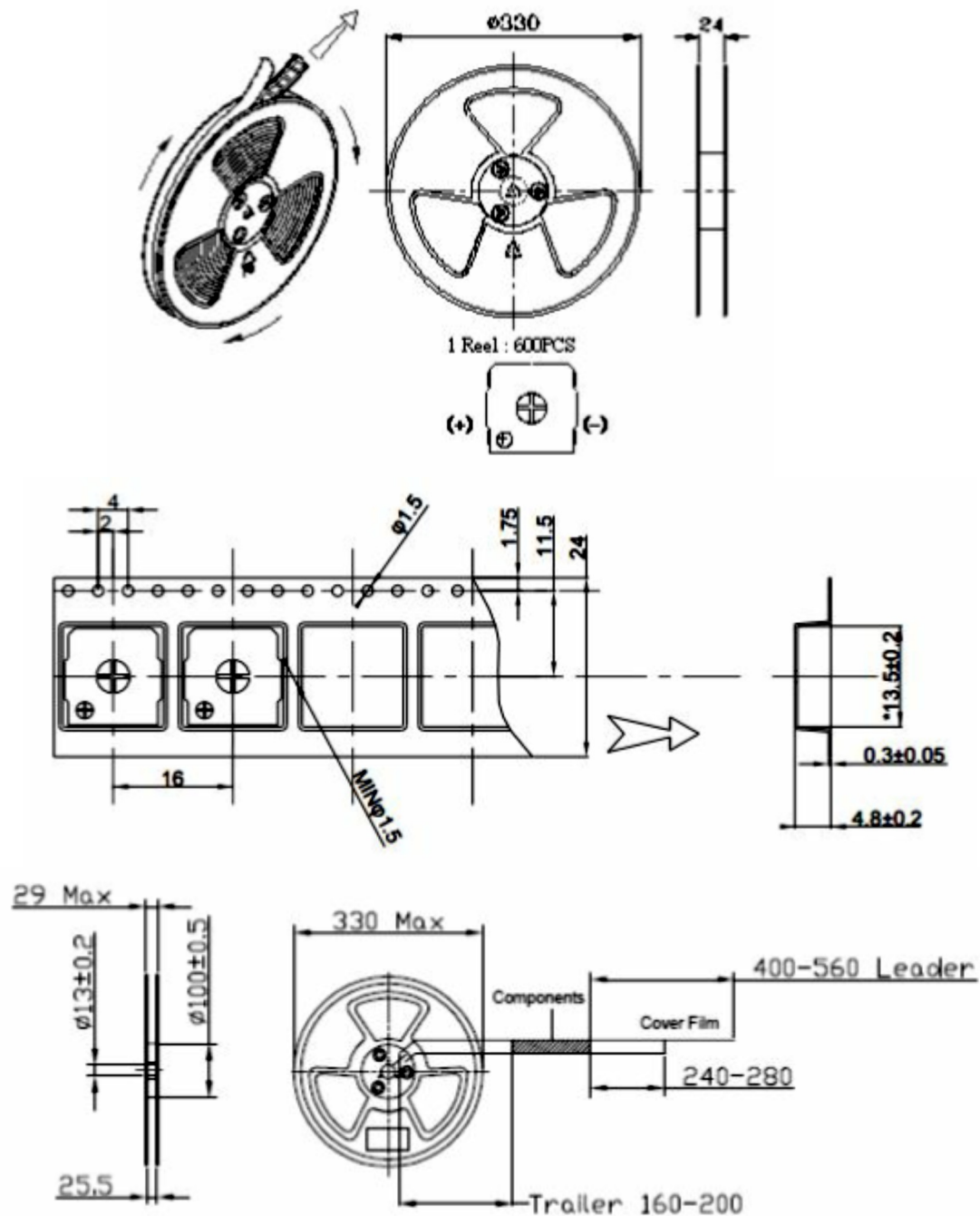
8. Recommended Land Pattern Dimension




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9. Packing



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10. Revision

Rev. No	Date	Page	Description	Sign
1. 0	09/03/18	All	Preliminary Release	Wang.Xue
1. 1	05/06/19	All	Production release	G.Schubert
1. 2	01/10/2019	2	Temperature increase	G.Schubert

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