East Electronics

Product Specification

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Product Name:	Speaker
Part Number:	SCM-2415L4.5-8N1R (8Ω1W)
Version:	Rev. 1
Date:	2019-5-25
Note:	

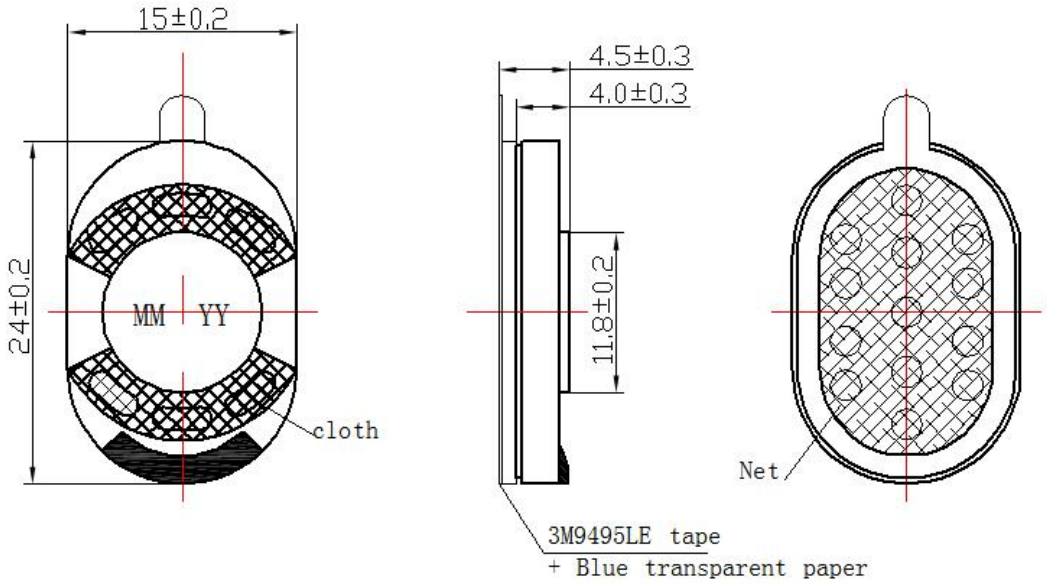
Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1	**Released**	**Lv Wenbin May 25. 2019**	**Gao Rong**	**Wang Jiancheng**

1. Part Number : SCM-2415LL4.5-8N1R

2. Dimension Drawing: (Unit: mm)



3. Specification:

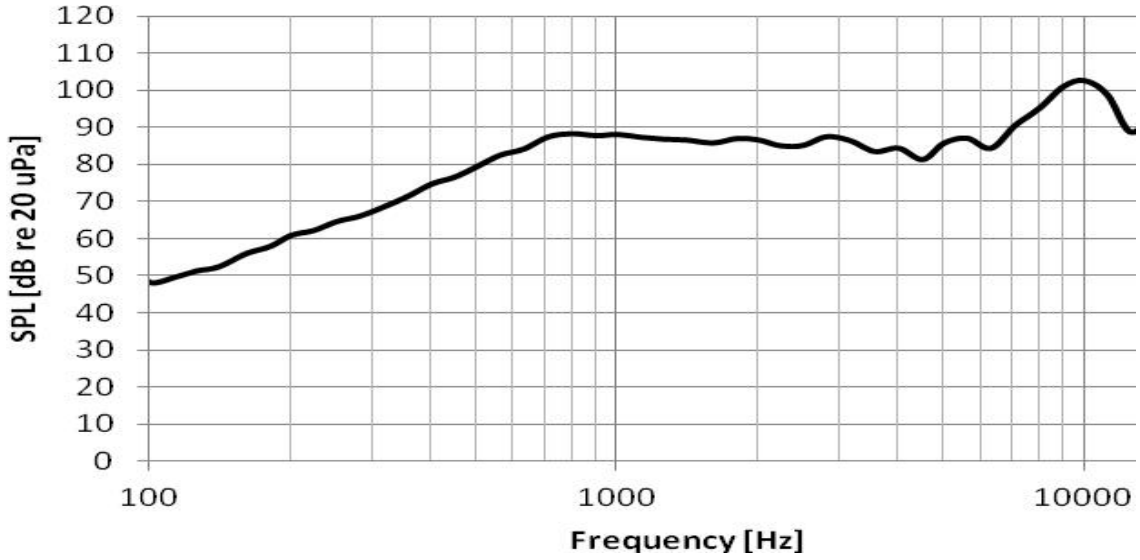
No.	Items	Specification
3-1	Rated impedance	8Ω± 15 %
3-2	Resonant frequency (f0)	750Hz ± 20 % 1.0 V
3-3	SPL normal power input	88 dB ± 3 0.1W/0.1 M at 800,1000,1200 and 1500Hz average
3-4	Frequency range	f0 ~20 kHz SPL-10dB
3-5	Distortion	＜ 5 % at 1kHz input at 0.1W
3-6	Normal power	1.0 W
3-7	Maximum power	1.2 W
3-8	Appearance normal	@A.T. 15~35℃, H.M. 25~75%, B.P. 86~106kPa
3-9	Buzzes & rattles no appearance	with sine wave from F0 to 5 kHz in free air 2.83 V
3-10	Diaphragm material	Mylar
3-11	Weight	6.5 g

NOTES :

1. Test in anechoic room and use the IEC standard baffler which size at : 1350 mm (W) X 1650 mm (H)
2. Test should be made under the conditions of room temperature (20 ±10 °C), relative humidity (60 ±20%) and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room

temperature 20 ±2 °C, relative humidity 60~70% and normal atmospheric pressure.

4. Typical Frequency Response Curve:

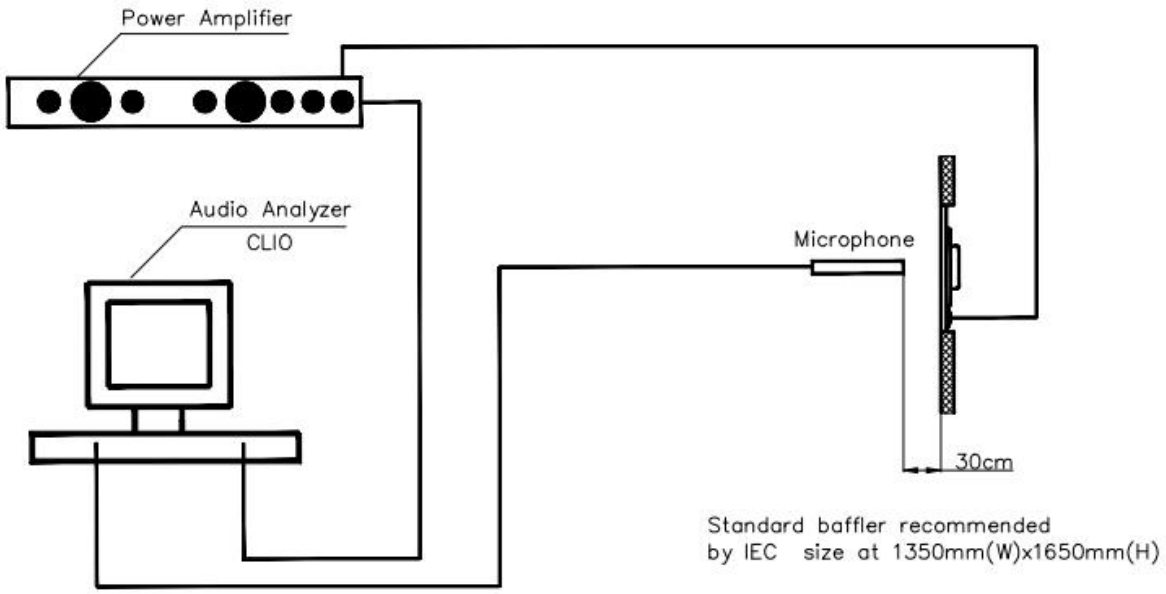


5. Reliability Test:

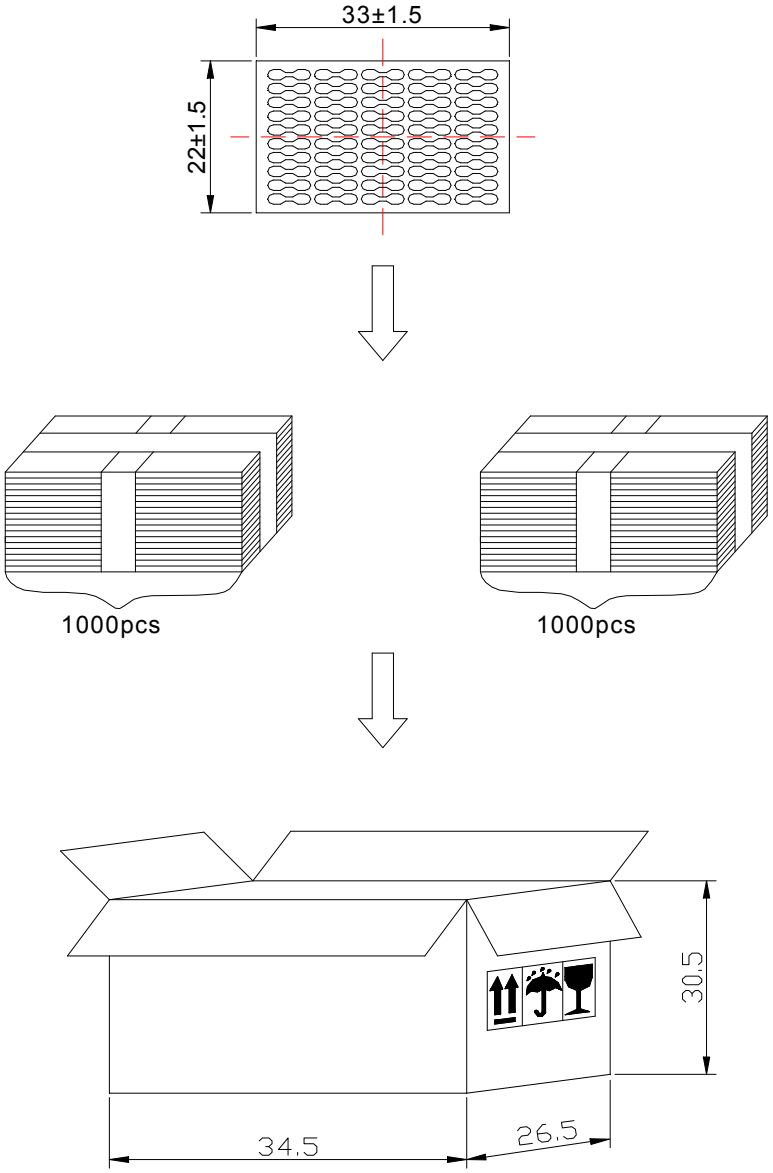
No.	Item	Method of Test	Tolerance after Testing
5-1	Operating temperature	-20 °C ~ + 60 °C	
5-2	High-temperature loading & storage	@ ¼ rated noise power /60 ± 2 °C operating for 16 hours then depositing for 2 hours at constant temperature,completing testing within 1 hour after withdrawing.	Meet requirements of appearance、Buzzes & rattles after test
5-3	Low-temperature loading & storage	@ ¼ rated noise power/-10 ± 3 °C operating for 1 hours, depositing @ -25 ± 3 °C for 2 hours, then resuming at normal atmosphere conditions (GB/T9396-1996 4.2) for 4 hours.	Meet requirements of appearance、Buzzes & rattles, solderability after test
5-4	Static humidity /temperature	@ A.T. 40 ± 2 °C, H.M.93± 2 % depositing for 48 hours, then resuming @ normal atmosphere conditions (GB/T9396-1996 4.2) for 24 hours.	Meet requirements of appearance, Buzzes & rattles, insulation resistance, bearing voltage after test
5-5	Temperature (high and low) cycle test	Storage in -40 °C ± 5 °C for 2hours, in 20 °C ± 5 °C for 2 hours, in 60°C ± 5 °C for 2 hours then back in 20 °C ± 5 °C 2 hours, as one cycle. 12 cycle in total.	Appearance: no obviously damage Tone: no obviously noise

5-6	Drop test	Drop a product naturally from the height of 1000 mm onto the surface of 100 mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively.	SPL ±3dB F0 ±20%
5-7	Life test in the room temperature	Input the signal with the valid frequency range on the speaker in continuously for 100 hours, the room temperature should control in 15 °C to 35 °C.	ACR ±15%
5-8	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55 Hz and then 55 to 10) under single amplitude of 0.75 mm is 3 minute, then expose to the room temperature for 2 hours.	
NOTE: The frame is allowed to deform after drop test.			

6. Electrical Testing Method:



7. Packing Information:



Packing information:
100pcs per tray

10 trays for unit，2 units per carton

Total:2000 pcs per box
Size:34.5*26.5*30.5cm