

# **East Electronics**



# **Product Specification**

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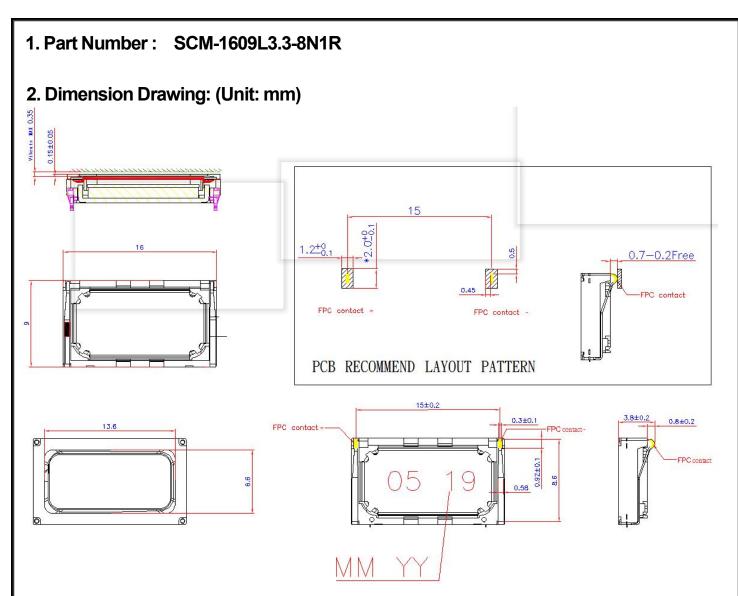
http://www.east-elec.com

Product Name:	Speaker	
Part Number:	SCM-1609L3.3-8N1R	(8Ω1W)
Version:	Rev. 1	
Date:	2019-11-11	
Note:		

## Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

**Revision History** 

Rev.	Description	Author/Date	Checked By	Approver
1	Released	Lv Wenbin Nov. 11. 2019	Gao Rong	Wang Jiancheng



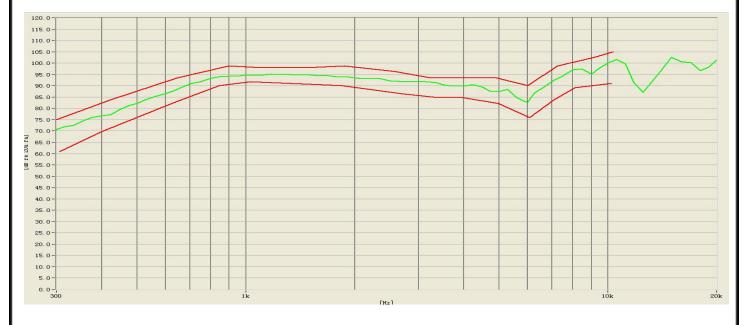
## 3. Specification:

No.	Items	Specification	
3-1	Rated impedance	8Ω± 15 % at1.5Khz	1 V input
3-2	Resonant frequency (f0)	580Hz ± 20 %     in free air       880 Hz ± 20 %     in 1.0 cc closed box	
3-3	SPL normal power input 92 dB ± 3 1W/0.1 M at 2.0Khz in 1.0 cc closed box		2.83 V
3-4	Frequency range f0 ~20 kHz SPL-10dB		2.8 3 V
3-5	Distortion	< 5 % at 1kHz in 1.0 cc closed box input at 0.1W < 10% at 1Khz in free air input at 1W	
3-6	Normal power	1.0 W in 1.0 cc closed box	
3-7	Maximum power	1.2 W in 1.0 cc closed box	
3-8	Appearance normal @A.T. 15~35°C, H.M. 25~75%, B.P. 86~106kPa		
3-9	Buzzes & rattles no appearance	with sine wave from F0 to 20 kHz in 1 .0 cc closed box with sine wave from F0 to 20 kHz in free air	2.83 V 1.0 V
3-10	Diaphragm material	PEEK	
3-11	Weight	1.5 g	
East E	lectronics		2/5

#### 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:



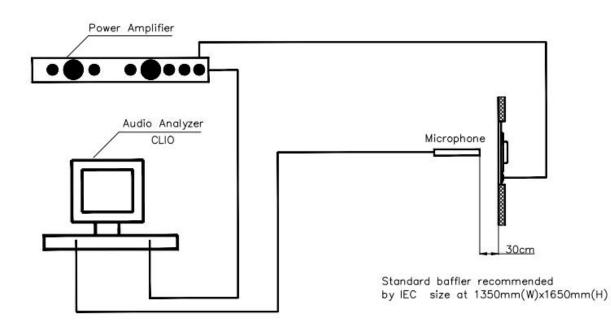
Frequency(Hz)	300-600	800-2K	2.5K-4.0K	4.2K-10K
Upper limit	+6	+4	+6	+6
Lower limit	-6	-4	-6	-6

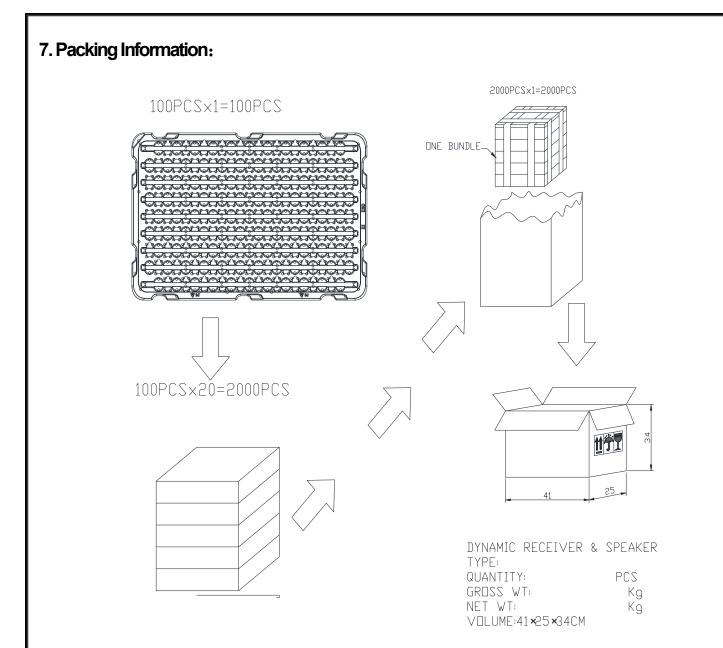
### 5. Reliability Test:

No.	ltem	Method of Test	Tolerance after Testing
5-1	Operating temperature	-20 °C ~ + 60 °C	
5-2	High-temperature loading & storage	@ $\frac{1}{4}$ 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	@ <sup>1</sup> / <sub>4</sub> 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

	Static humidity	@ A.T. $40 \pm 2$ °C, H.M. $93 \pm 2$ % depositing for 48	Meet requirements of appearance,
5-4	-	hours, then resuming @ normal atmosphere	Buzzes & rattles, insulation resistance,
	/temperature	conditions (GB/T9396-1996 4.2) for 24 hours.	bearing voltage after test
		Storage in -40 $^\circ\text{C}\pm5$ $^\circ\text{C}$ for 2hours, in 20 $^\circ\text{C}\pm5$ $^\circ\text{C}$	
	Temperature (high	for 2 hours,	
5-5	and low) cycle test	in 60°C $\pm$ 5 °C for 2 hours then back in 20 °C $\pm$ 5 °C	
		2 hours, as one cycle. 12 cycle in total.	
	Drop test	Drop a product naturally from the height of 1000 mm	Appearance: no obviously damage
		onto the surface of 100 mm thick wooden board.	Tone: no obviously noise
5-6		Two directions: upper and side of the product are to	
		be applied for this drop test once respectively.	
	Life test in the room temperature	Input the signal with the valid frequency range on the	SPL±3dB
5-7		speaker in continuously for 100 hours, the room	
		temperature should control in 15 °C to 35 °C.	F0 ±20%
	Vibration test	Conduct the test for the directions of X Y and Z for	ACR +15%
		0.5 hour each (total 1.5 hours). To-and Fri sweep	
5-8		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.	

## 6. Electrical Testing Method:





Packing information: 100pcs per tray 20 trays for unit, 1 units per carton Total:2000 pcs per box Size:41\*25\*34cm