Product Specification

Product Name:	Speaker
Part Number:	SED-57R16-4N2RE (4Ω 2W)
Version:	Rev. 2
Date:	2015-07-16
Note:	

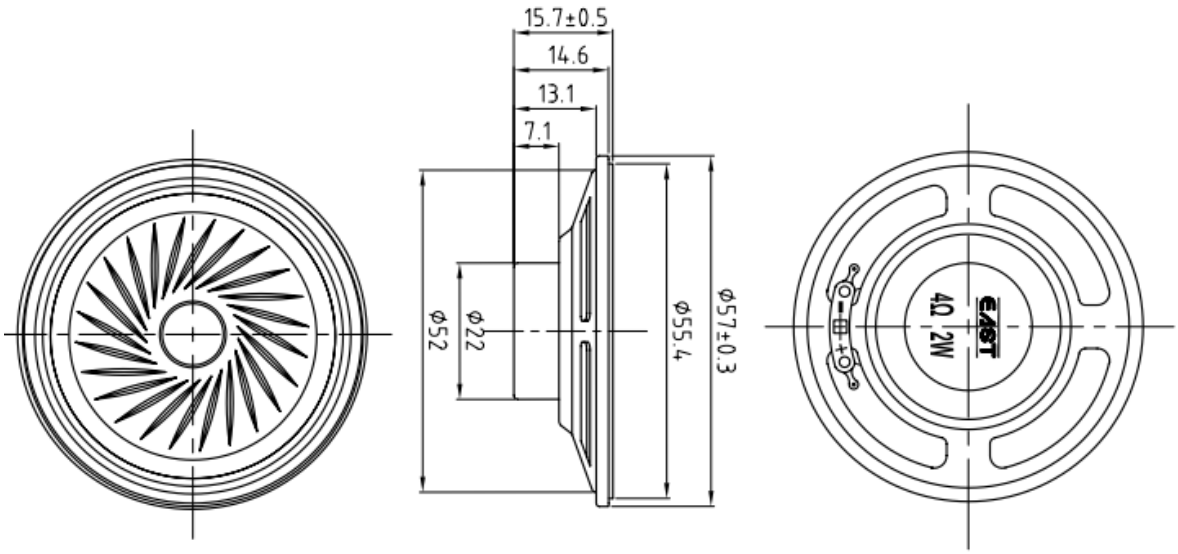
Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1	Released	Lv Wenbin Apr. 10. 2014	Zhao Pengsen	Wang Jiancheng
2	Change appearance figure	Lv Wenbin Jul. 16. 2015	Zhao Pengsen	Wang Jiancheng

1. Part Number : SED-SED-57R16-4N2RE

2. Dimension Drawing: (Unit: mm)



Note：Frame surface electrophoresis coated (black).

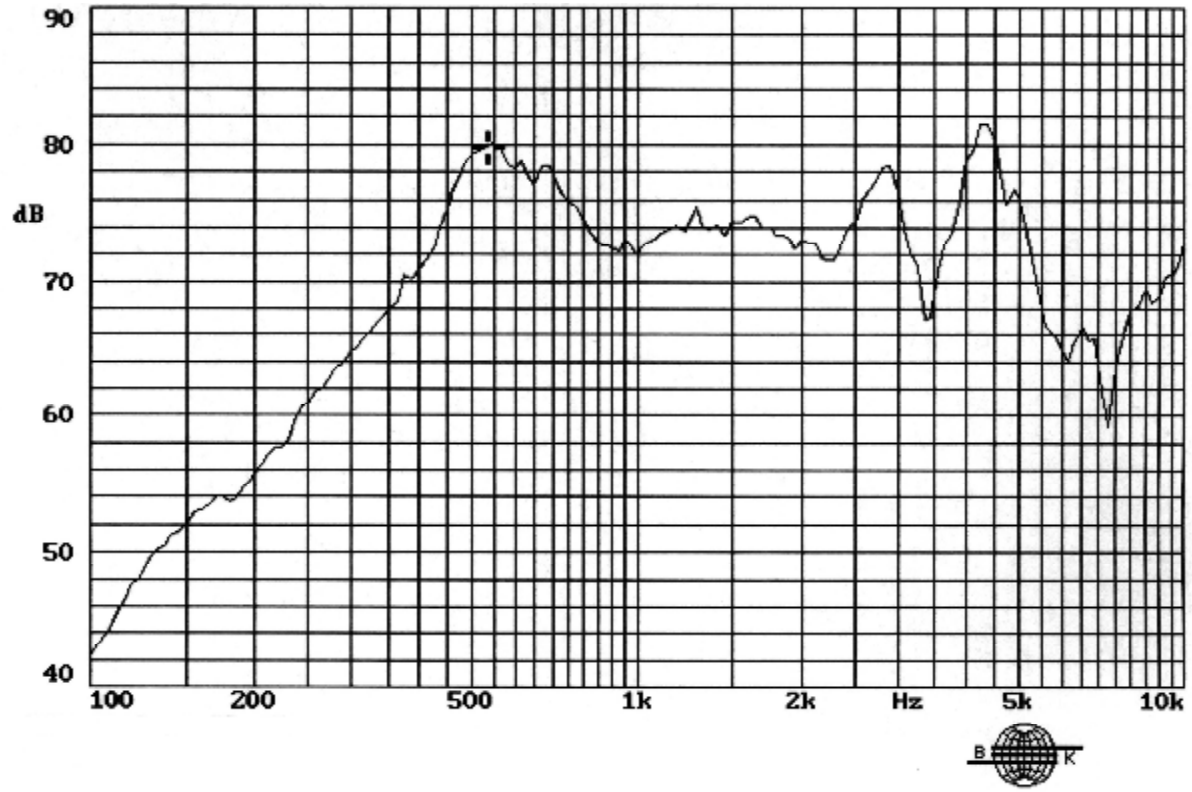
3. Specification：

No.	Items	Specification
3-1	Min sound pressure level	75dB (A) / 300cm / 520Hz / 5.66Vpp square wave
3-2	Rated impedance	4Ω ± 15 % 1.0V
3-3	Frequency range	400Hz ~4 kHz SPL-10dB 2.83V
3-4	Normal power	2 W 2.83V
3-5	Maximum power	3W 3.46V
3-6	Appearance normal	@A.T. 15~35℃, H.M. 25~75%, B.P. 86~106kPa
3-7	Buzzes & rattles no appearance	@ 0.3m with sine wave from 400Hz to 4kHz input/rated noise power 2.83V
3-8	Diaphragm material	Mylar
3-9	Operating Temperature	-20 °C ~ +85 °C
3-10	Storage Temperature	-30 °C ~ +85°C

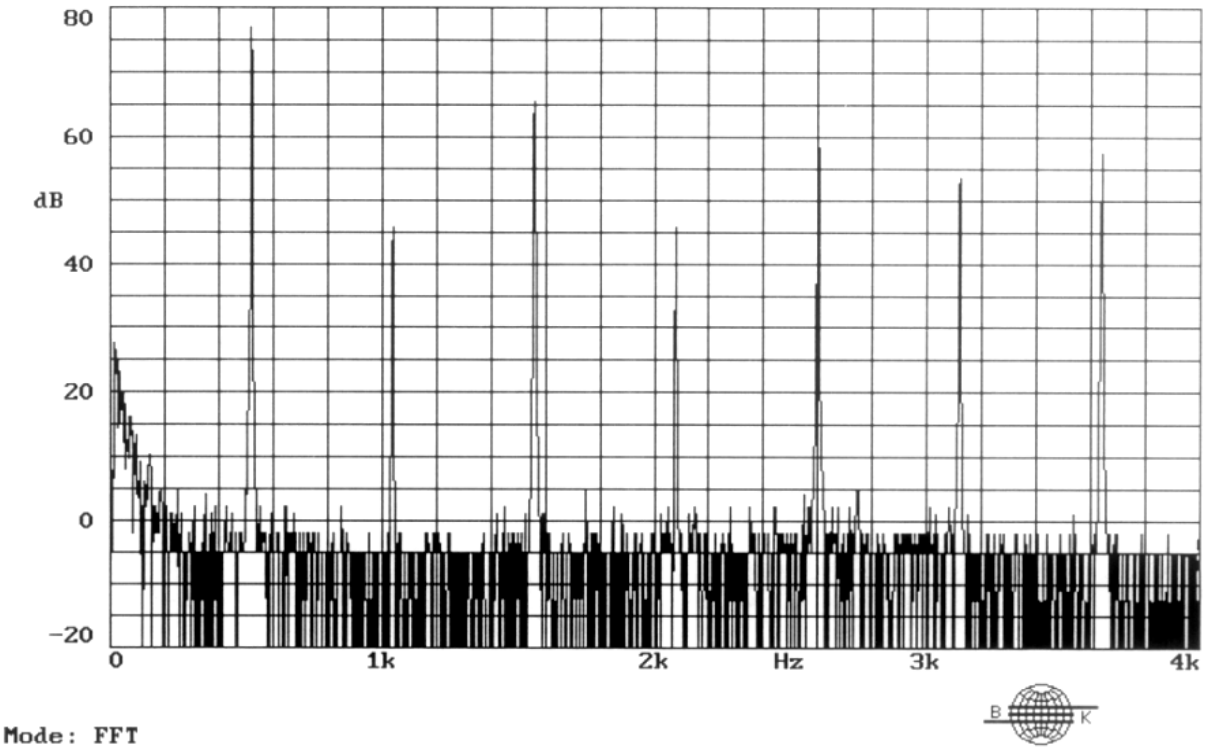
NOTES：

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. FFT Curve:

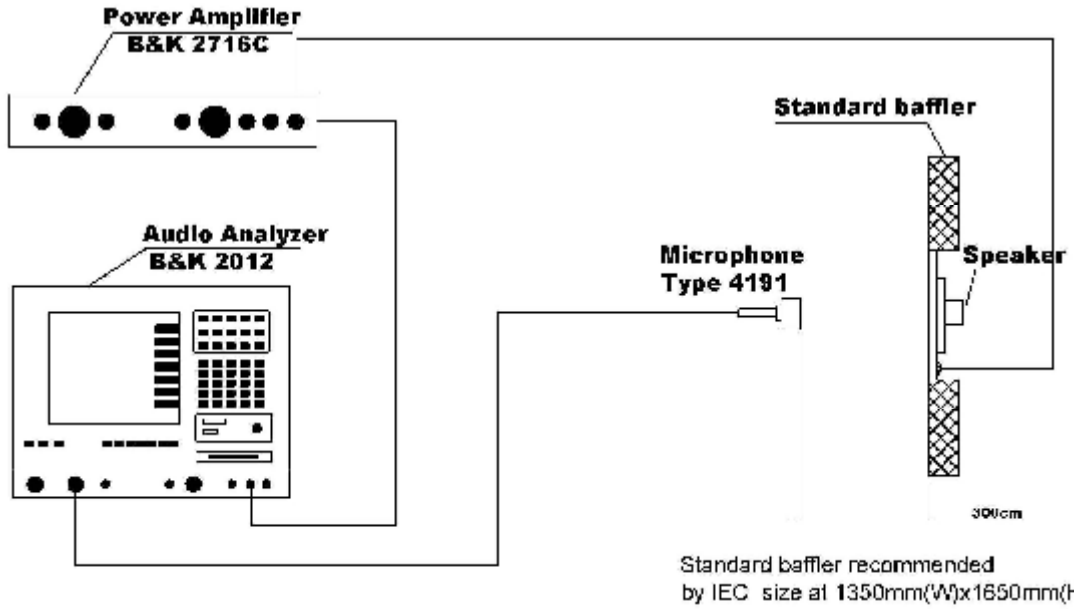


Mode: FFT

6. Reliability Test:

No.	Item	Method of Test	Tolerance after Testing
6-1	Operating temperature	-20°C ~ +85°C	
6-2	High-temperature loading & storage	@ ¼ rated noise power /85 ± 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
6-3	Low-temperature loading & storage	@ ¼ rated noise power/-10 ± 3 °C operating for 1 hours, depositing @ -20± 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
6-4	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
6-5	Temperature (high and low) cycle test	Storage in -20 °C ± 5 °C for 2hours, in 20 °C ± 5 °C for 2 hours, in 85°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 SPL ±3dB F0 ±20% ACR ±15%
6-6	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.	
6-7	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.	
6-8	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.			

7. Electrical Testing Method:

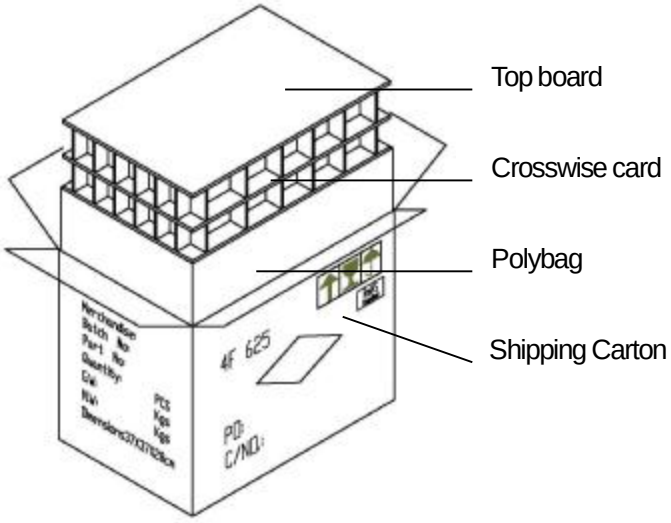


Anechoic chamber

8. Packing Information:

75Pcs / Crosswise card

Shipping Carton



Packing information:

1・Packing: 375 pcs per export carton

2・Carton Size: 37×37×28cm

3・N.W: 11.6 kg G.W: 13.5kg