# **SPECIFICATION**

# FOR APPRONAL

Customer :

Product Name : Horn speaker

Model Name : VSH86x86R8F14P15

Drawing No. : VS20150625011

# Signature of Voise

Approved by	Checkde by	Issued by	Date



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### 1. Revision

Rev.No.	Date	Page	Description of Revision
1.0	2021/12/22		Preliminary

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# 2. Scope

This specification is applied to the siren used for sounder in alarm systems, Please contact us when using this product for any other applications than described in the above.

### 3. General Characteristics

2.1 Out-Diameter : 86x86 mm
 2.2 Height : 45 mm
 2.3 Weight : 310 ±10g

2.4 Operating Temperature range:

-20~+60 ℃ without loss of function

2.5 Store Temperature range:

-30~+70 °C without loss of function

### 4. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35  $^{\circ}$ C, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification	
1	Impedance	8 Ω±20% at 2kHz	
2	Min Sound Pressure Level	96 dB at 1M/1W at 1.2K-3kHz AVG ,B&K	
3	Resonance Frequency	1.4 kHz±20%	
4	Frequency Range	1000-4000Hz	
5	Input Power	Rated 15W / Max. 20W	
6	Magnet size	Φ60x32x10 mm(DiaxdiaxH)	
7	Case Material	ABS	
8	Color	Gray	
9	Buzz and Rattle	Should not be audible buzzes,rattles when the 10.95V sine wave signal swept at frequency range.	
10	Voice Coil dimension	Φ 25.4 mm(Dia.)	

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# 5. Reliability Test

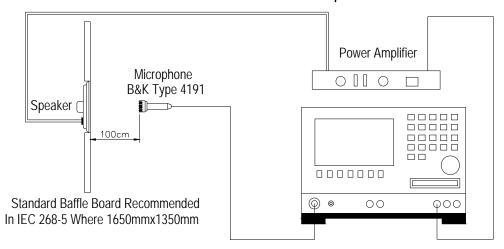
After test(1~6item), the Electronic Siren S.P.L . difference shall be within  $\pm 10 dB$ , and the appearance not exist any change to be harmful to normal operation(e.g.cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being woked in a chamber with +60±2 $^{\circ}$ C for 2h and then being placed in natural condition for 2h, sounder shall be measured.
2	Low Temperature Test	First being worked in a chamber with -20±2 $^{\circ}$ C for 2h and then being placed in a chamber with -20±2 $^{\circ}$ C for 16h, finally being placed in natural condtion for 2h, sounder shall be measured.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at +40±2℃ for 2 h and then being placed in natural condition for 2h , sounder shall be measured.
4	Shock Test	Under acceleration of peak100m/s²(10g) & half sine wave pulse (pulse time is 16ms)condition.run into product 1000 times continuously.
5	Vibration Test	Horn shall be measured after being applied vibration of amplitude of 1.5mm with 10to 30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hour.
6	Drop Test	A speaker is dropped from 1m in length on 75° inclination and a magnetic circuit of speaker is hitted to the restraint metal.  After the test, magnetic circuit should not drop out and speakr should be measured.
7	Load test	After being applied loading white noise with input power row(10.35\text{viris.}) for 48 hours, then placed in natural condition for 1 hour, speaker shall be measured.

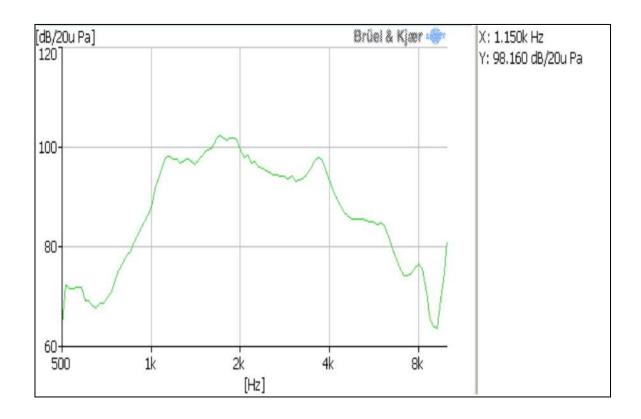
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# 6. Measurement Block Diagram & Response curve

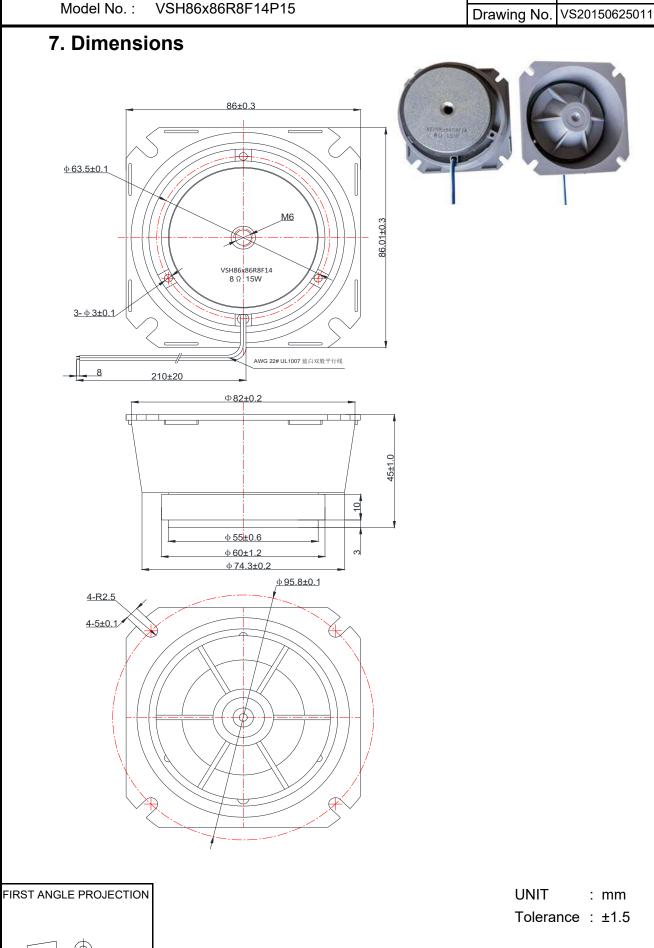
# Standard test condition of speaker



Audio Analyzer B&K Type 3560-B-030



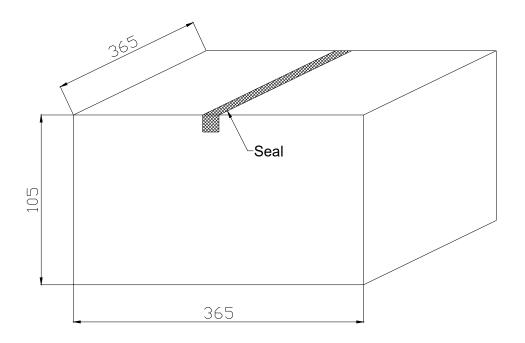
# Specification for horn speaker Page Revision No. 6/7 Revision No. Model No.: VSH86x86R8F14P15 Drawing No. VS20150625011 7. Dimensions



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# 8. Packing

Each minimum package unit of products shall be in a carton box and it shall be marked with Part Number ,quantity. There shall be no mechanical damage on during tsansportation and/or in storage.



365X365X115mm QTY: 32 PCS