

# SPECIFICATION

## FOR

## APPROVAL

Description: Dynamic Speaker

ICC/Intervox Model No.: S150SL-1W-PC

ISSUE	CHECK	APPROVAL	CUSTOMER
Tan Qianfeng 11/12/13	Wu Ting 11/12/13	Tang Helin 11/12/13	



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# SPECIFICATIONS

Model No.

S150SL-1W-PC

Page

1/6

## 1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Type	Dynamic transducer with pins
1-2	Rated Input Power	1W
1-3	Max Input Power	1.5W
1-4	Rated Impedance	$8 \pm 15\% \Omega$ /1KHz/1V
1-5	Resonance Frequency( $f_0$ )	$600 \pm 150\text{Hz}/1\text{V}$
1-6	Sound Pressure Level	$83 \pm 3\text{dB}$ at (AVG0.6,0.8 ,1.0,1.2)KHz 1W/0.5m $93 \pm 3\text{dB}$ at (AVG0.6,0.8 ,1.0,1.2)KHz 0.1W/0.1m baffleboard (IEC)
1-7	Frequency Range	Fo ~ 5KHz
1-8	Buzz, Rattle ,etc.	Should not be audible at 2.83V sine wave between (450 Hz ~ 5kHz)
1-9	Voice Coil Diameter	13.5mm
1-10	Magnet (NdFeB)	12.5×1.5t mm
1-11	Weight	9g
1-12	Operation temperature	-40°C~+85°C
1-13	Storage Temperature Range	-40°C~+85°C

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# SPECIFICATIONS

Model No.

S150SL-1W-PC

Page

2/6

## 2. ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. Test	Keep 96 hours at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2-2	Low temp. Test	Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2-3	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 92-95% and leave 3 hours in normal temperature and then checked.
2-4	Thermal cycle test.	Low temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , temperature: $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
2-5	Vibration	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
2-6	Drop test	Free drop from 75cm height to a board of 20mm thick, total 10 times.
2-7	Load test	Rated Power white noise is applied for 96 hours
2-8	Max Power test	Max power 1 min on – 2 min off 10 cycles.

PASS CRITERION :

After these test the change of S.P.L shall be within  $\pm 3$  dB.

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# SPECIFICATIONS

Model No.

S150SL-1W-PC

Page

3/6

## 3.MEASURING METHOD(SPEAKER MODE)

### 3-1 .Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

#### JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

### 3-2. Standard Test Fixture

1.Input Power : 1W

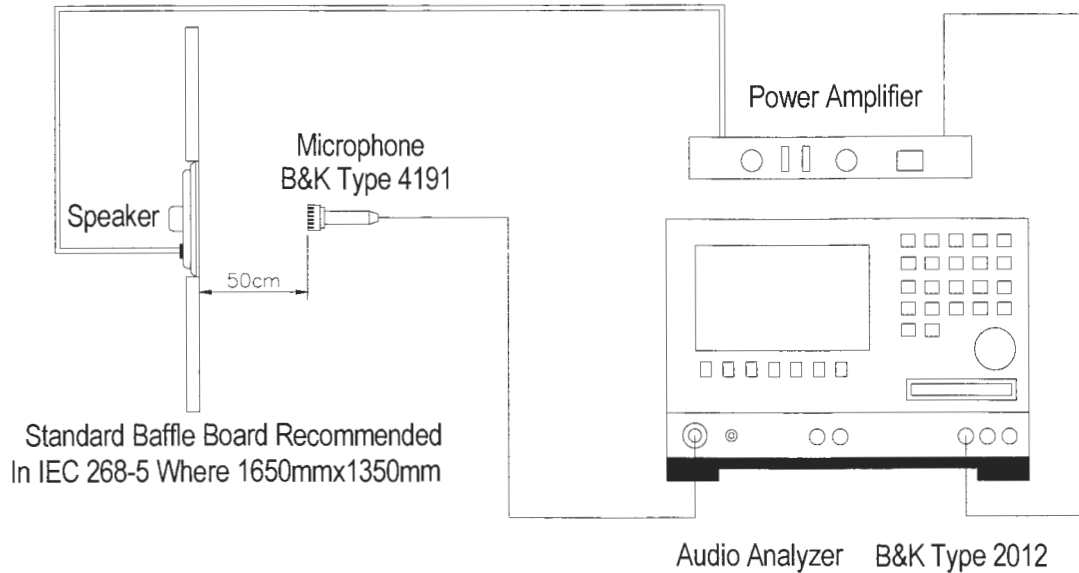
2.Zero Level : -dB

3.Mode : SSR

4.potentiometer Range : 50dB

5. ISO Series:R80

### Standard test condition of speaker



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# SPECIFICATIONS

Model No.

S150SL-1W-PC

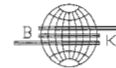
Page

4/6

## 4.FREQUENCY RESPONSE CURVE



Mode: SSR



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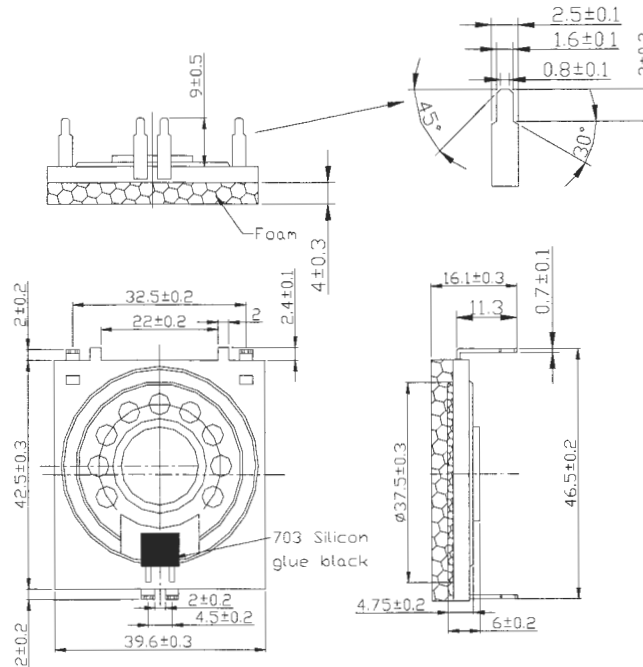
S150SL-1W-PC

Page

5/6

## 5.DIMENSIONS

Unless otherwise specified, tolerance:  $\pm 0.3$ (unit: mm)



8	Foam	1	Black Foam	GU-001
7	Case	1	PIN+ Black Noryl	GU-001
6	PCB	1	Epoxy	GU-001
5	Diaphragm	1	Clear PEI	GU-001
4	Voice Coil	1	Copper	GU-001
3	Magnet	1	Nd Fe B	GU-001
2.	Plate	1	SPCC	GU-001
1	Frame	1	Black Noryl+U-Yoke(SPCC)	GU-001

The material must be meet to GU-001

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
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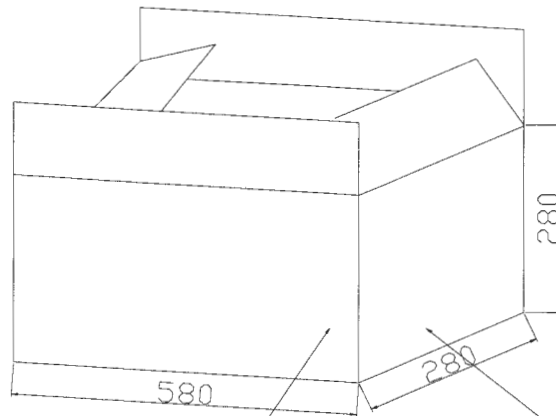
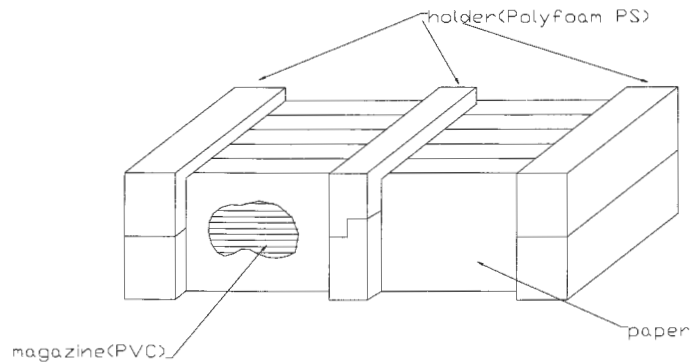
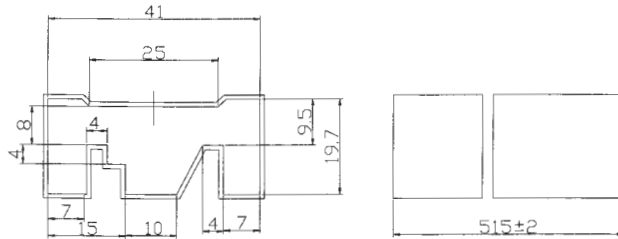
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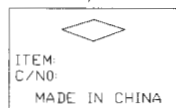
Page

6/6

## 6.PACKING



Each magazine contains:11PCS  
Total quantity is 11PCS X 50MG



品名	数量
规格	单位
MODEL	
QTY	PCS
N.W	KG
G.W	KG
SIZE	
LOT NO	

	550/Carton (11/Tube)				
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