

SPECIFICATIONS

Model No.

WAY50-1-8F32P-01

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Dimension	50×17t
1-2	Rated Input Power	0.4W
1-3	Max Input Power	0.5W
1-4	Rated Impedance	8±15% Ω /1KHz/1V
1-5	Resonance Frequency(f0)	550±20% Hz/1V
1-6	Sound Pressure Level	80±3 dB at (AVG 0.8,1.0,1.2,1.5)KHz 1W/1m baffleboard (IEC)
1-7	Frequency Range	FOHZ ~ 5KHz
1-8	Total Harmonic Distortion	5%MAX. at 1KHz,1W
1-9	Flux Density	T
1-10	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward
1-11	OperationTest	Must be normal at sine wave and program source 1W.
1-12	Buzz,Rattle,etc.	Should not be audible at 1.8 V sine wave between (FO Hz ~ 4kHz)
1-13	Weight	35g
1-14	Voice Coil Diameter	φ 13.28mm
1-15	Magnet (Ferrite)	φ 32×φ 18×6t mm
1-16	Appearance	Should not exist any obstacle to be harmful to normal operation;damages,cracks,rusts and distortions,etc.
1-17	Operating Temp. Range	-20℃~+60℃
1-18	Storage Temp. Range	-25℃~+70℃

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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. Test	Keep 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2-2	Low temp. Test	Keep 96 hours at $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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 95% and leave 3 hours in normal temperature and then checked.
2-4	Thermal cycle test.	Low temperature: $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
2-5	Vibration	Speaker shall be measured after being applied vibration of amplitude of 1.52mm with 10 to 55Hz band of vibration frequency to each of X、Y、Z 3 direction for 2 hours.
2-6	Drop test	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm
2-7	Load test	Rated Power white noise is applied for 96 hours
2-8	Terminal strength test	Applied 1N load to the terminal for 30 sec.

PASS CRITERION :

After these test , the change of S.P.L shall be within ± 3 dB .

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3.MEASURING METHOD(SPEAKER MODE)

3-1 .Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2 . Standard Test Fixture

1.Input Power : 1W(2.83V)

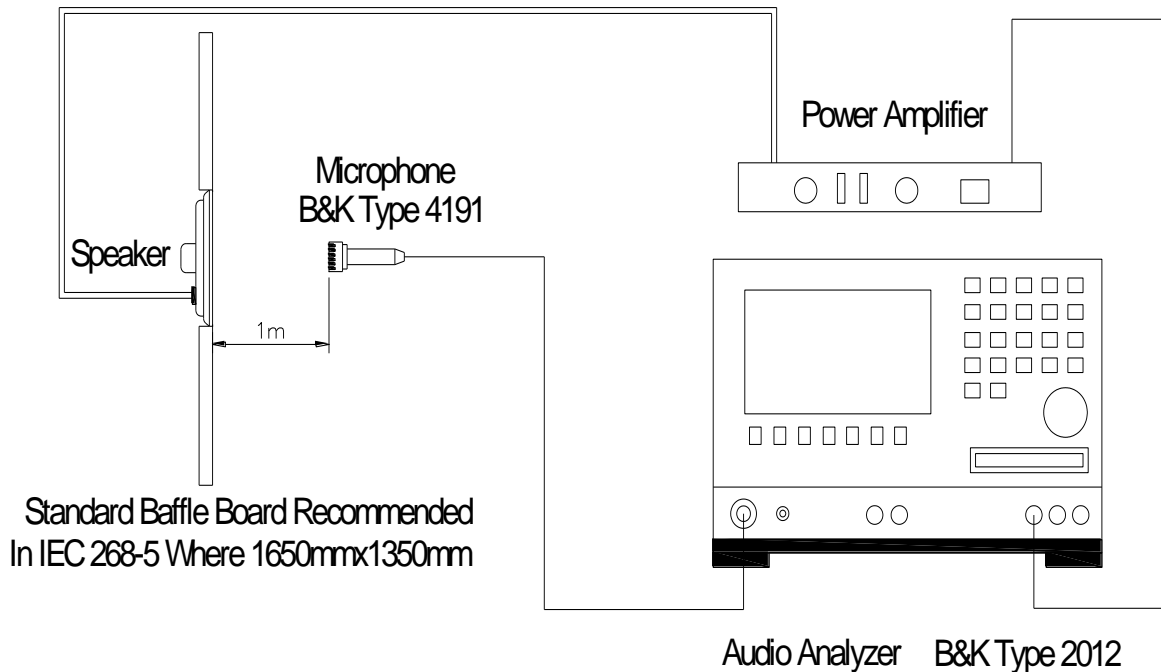
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



11/04/14

Tan Qianfeng

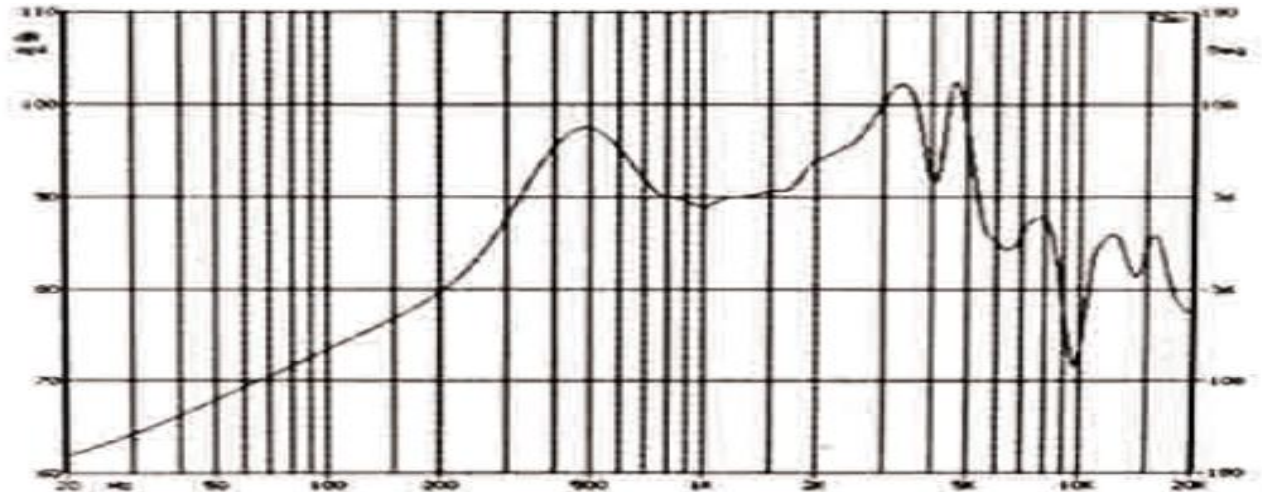
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4.FREQUENCY RESPONSE CURVE

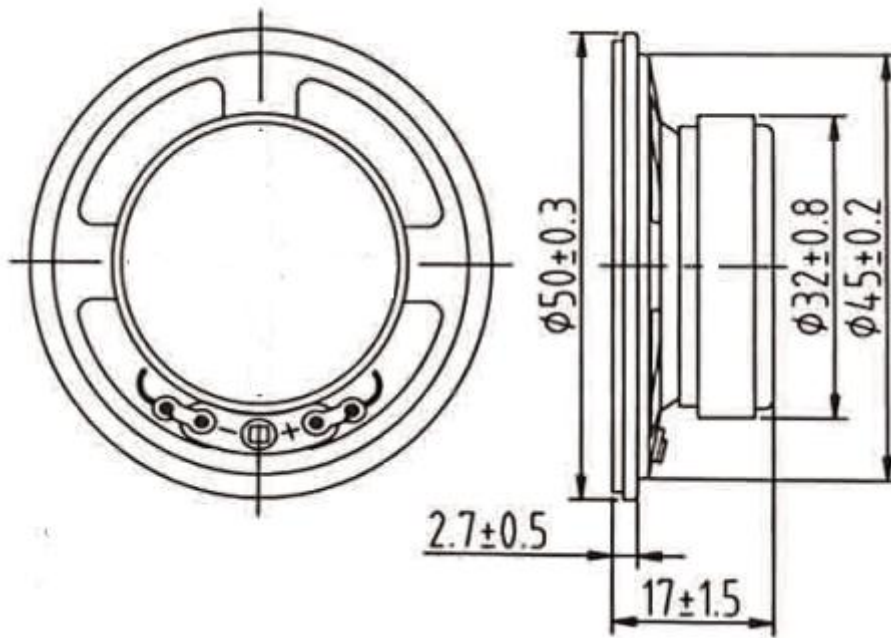


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5.DIMENSIONS

Unless otherwise specified,tolerance: ± 0.3 (unit:mm)



8	GASKET	1	Paper	
7	CAP	1	PET	GU-001
6	Diaphragm	1	PET	GU-001
5	VOICE COIL	1	Cu	GU-001
4	Yoke	1	SPCC	GU-001
3	Magnet	1	NdFeB	GU-001
2	PCB Terminal	1	Paper Cu	GU-001
1	Frame	1	SPCC	GU-001

The material must be meet to GU-001

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
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1	按实际更新外形图	01/26/15	Tan Qianfeng	Tang Helin	Tang Helin
		11/04/14	Tan Qianfeng	Tang Helin	Tang Helin
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