

Loudspeaker**Electrical and Acoustical Parameter**

Norm Input Power(W)	0.1
Max. Input Power(W)	0.2
Impedance ($\Omega \pm 15\%$ @2kHz,)	8
Sound pressure level (dBA ± 3 @ 0.1W/0.1M, at 0.8 , 1.0 , 1.2 , 1.5 kHz average)	90
Resonance Frequency Fo (Hz $\pm 20\%$)	750
Frequency Range (Hz)	Fo ~ 4000
Distortion [T.H.D.](%, 1 kHz, 0.1W)	< 5
Polarity (Diaphragm moves forward when positive voltage connected to)	"+" terminal
Remark:	Specs measured at 5~35°C, humidity 45~85%, under 86~106kPa pressure

Mechanical, Environmental Parameter

Contact / Wire	PCB Pad
Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Magnet Material	Ferrite
Housing Material	PBT
Membrane Material	PEI
IP Rating	N/A
Component Weight (g)	N/A
Remark:	

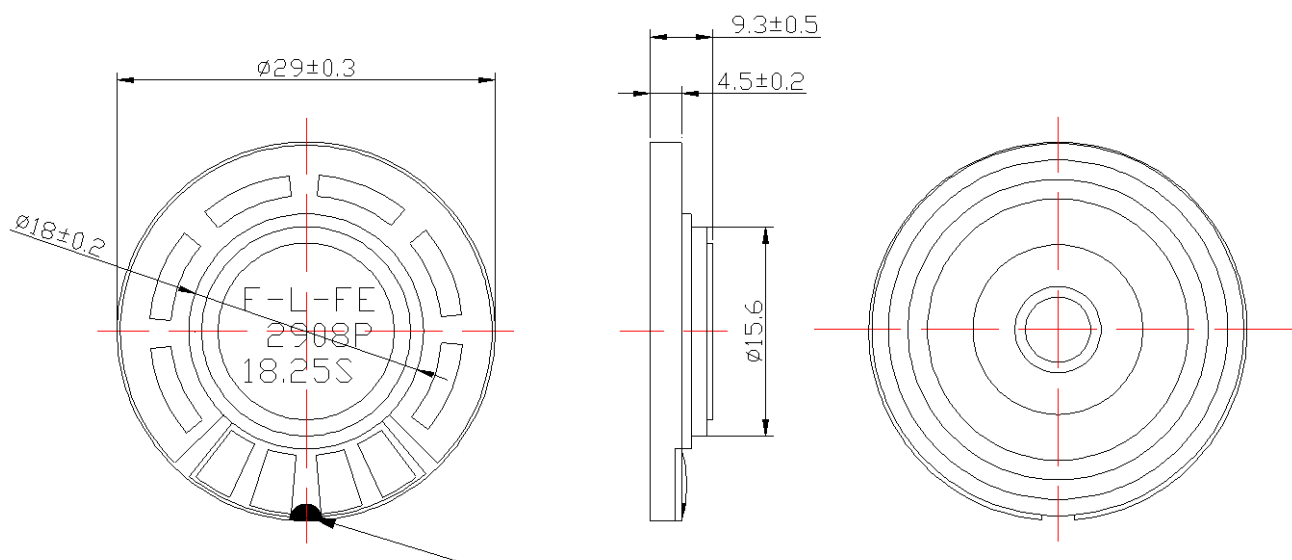
Approval

RoHs	<input checked="" type="checkbox"/>
REACH	<input checked="" type="checkbox"/>

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Drawing of Component

Unit: mm

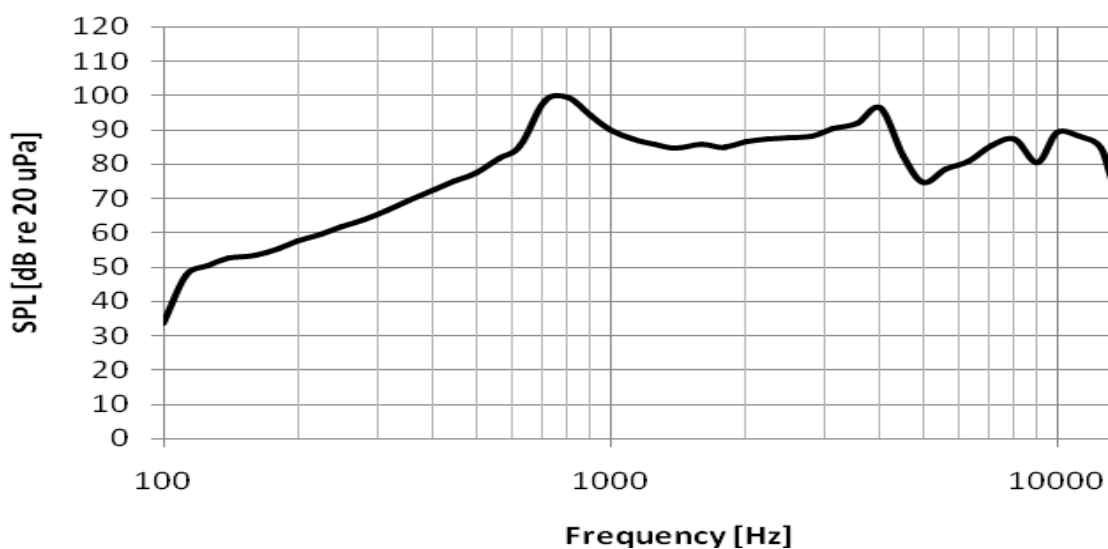


Black glue not allow to exceed the frame edge
18.25S (Year/ Week / S for Sound)

Dimensions without tolerance ± 0.5 mm

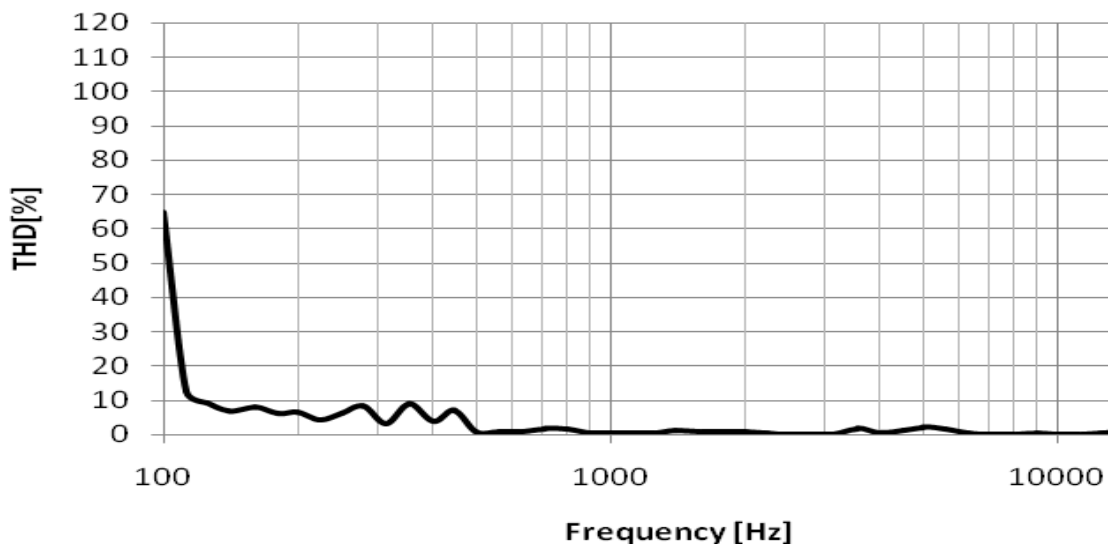
Schematic Diagrams and Characteristics

Frequency Response Curve



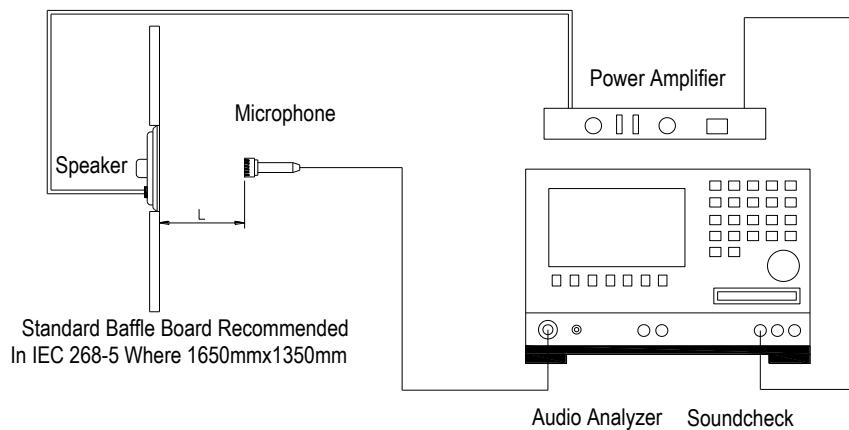
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Total Harmonic Distortion Curve



Test Method

Standard test condition of speaker



$L = 10cm$

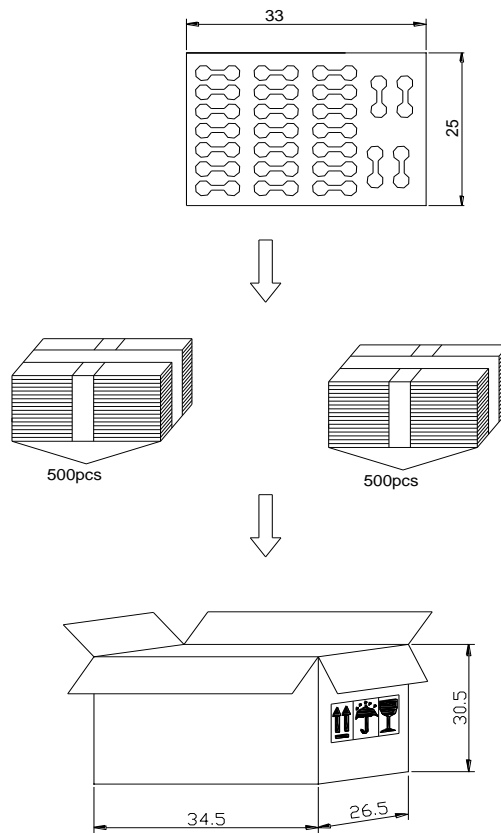
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Reliability Test

1	Reliability Test Performance	After any following test, parts should conform to original performance within ± 3 dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Test	96 hours at $+85^{\circ}\text{C}\pm 3^{\circ}\text{C}$
3	Low Temperature Test	96 hours at $-40^{\circ}\text{C}\pm 3^{\circ}\text{C}$
4	Humidity Test	96 hours at $+30^{\circ}\text{C}\pm 3^{\circ}\text{C}$, 92-95% RH
5	Temp./Humidity Cycle	<p>The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of</p> <p style="text-align: center;">90 ~ 95 % RH</p> <p style="text-align: center;">65°C</p> <p style="text-align: center;">25°C</p> <p style="text-align: center;">0.5hr 6hrs 0.5hr 5hrs</p>
6	Vibration Test	<p>Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm</p> <p>Duration: 2 hours each of 3 perpendicular directions</p>
7	Drop Test	Drop the speaker contained in normal box onto the surface of 40mm thick board 10 times from the height of 75cm
8	Operation Life Test	Must perform normal with program White-Noise source at Rated Power for 96 Hours
9	Termination Strength	Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;

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Packaging Information



units: cm

Remark:

50pcs per tray

10 trays for unit, 2 units per carton

Total: 1000 pcs per box

Size: 34.5*26.5*30.5cm

Revision Table

Index Nr.	Reason - Procedure Change description	Date	Name	Comments
01	Change drawing, add P/N and date code print	21.06.2018	Uwe Bartsch	

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