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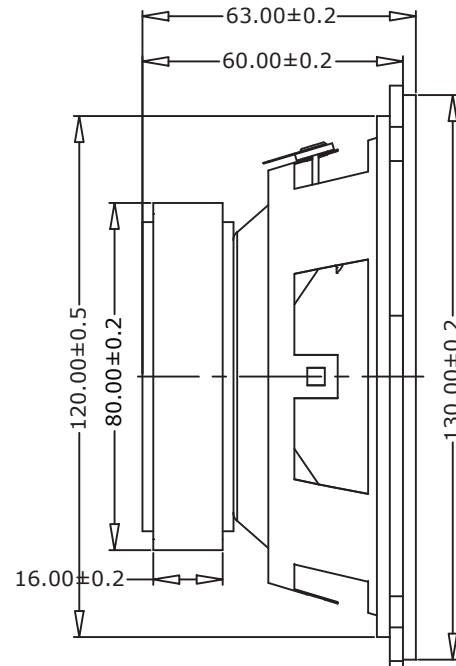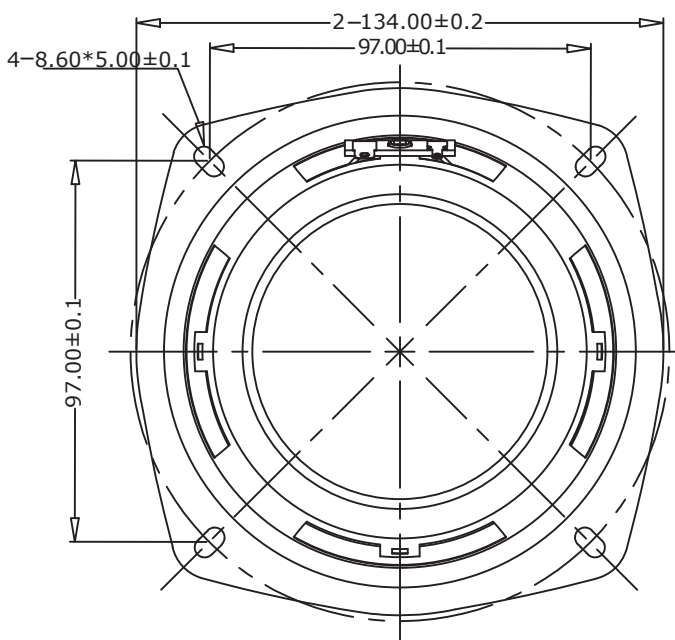Released Date: 19.04.2021|Version 1.00

SUFR12025
Data Sheet

SUFR12025

5" Full Range Speaker Unit

The SUFR12025 is a 120mm 8-ohm 25 Watt full range speaker with powerful Ferrite motor.

Features:
- Optimized for voice band.
- Cloth surround produces 87 decibel (dB) high sensitivity.
- Extended frequency response from dual paper cone.
- Low cost.

T-S Parameters:

Resonance frequency [fs]	100Hz
Mechanical Q factor [Qms]	4.62
Electrical Q factor [Qes]	1.241
Total Q factor [Qts]	0.978
Force factor [Bl]	5.553Tm
Mechanical resistance [Rms]	1.03kg/s
Moving mass [Mms]	7.6g
Compliance [Cms]	29.957
Effective diaph. diameter [D]	98 mm
Effective piston area [Sd]	93.310cm²
Equivalent volume [Vas]	3.704L
Sensitivity (2,83V/1m)	87dB

Power Handling:

Rated power input (IEC 268-5)	25W
Max power input (IEC 268-5)	40W

Electrical Data:

Normal impedance [Zn]	9.42Ω at 1kHz
Minimum impedance [Zmin]	8.65Ω
Maximum impedance [Zo]	41.8Ω
DC resistance [Re]	7.86Ω
Voice coil inductance [Le]	421µH at 1kHz

Mechanical Data:

Voice coil diameter	25.5mm
Voice coil height	8mm
Voice coil layer	1
Gap height	3.5mm
Linear excursion	± 2mm
Max mech. excursion	± 4.2mm
Unit weight	630g
Driver displacement volume	0.13L

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SUFR12025
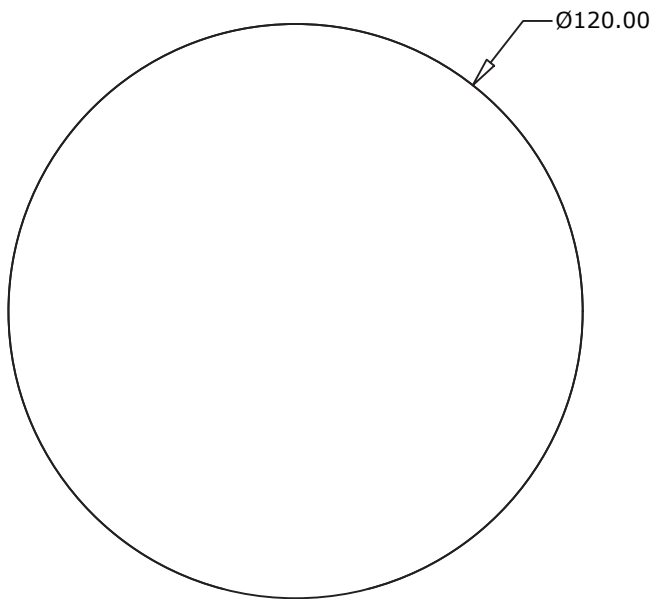Data Sheet

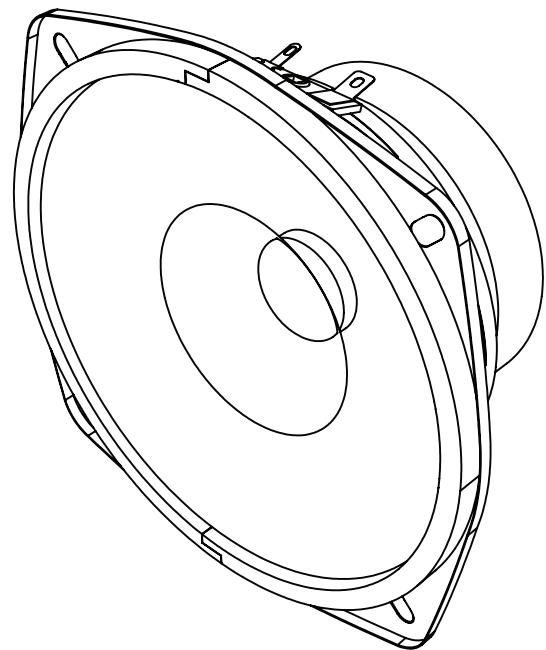## Mechanical Drawing
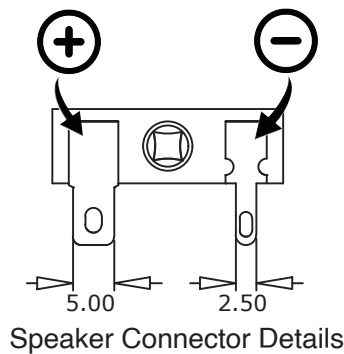
(Nominal Dimensions, mm)
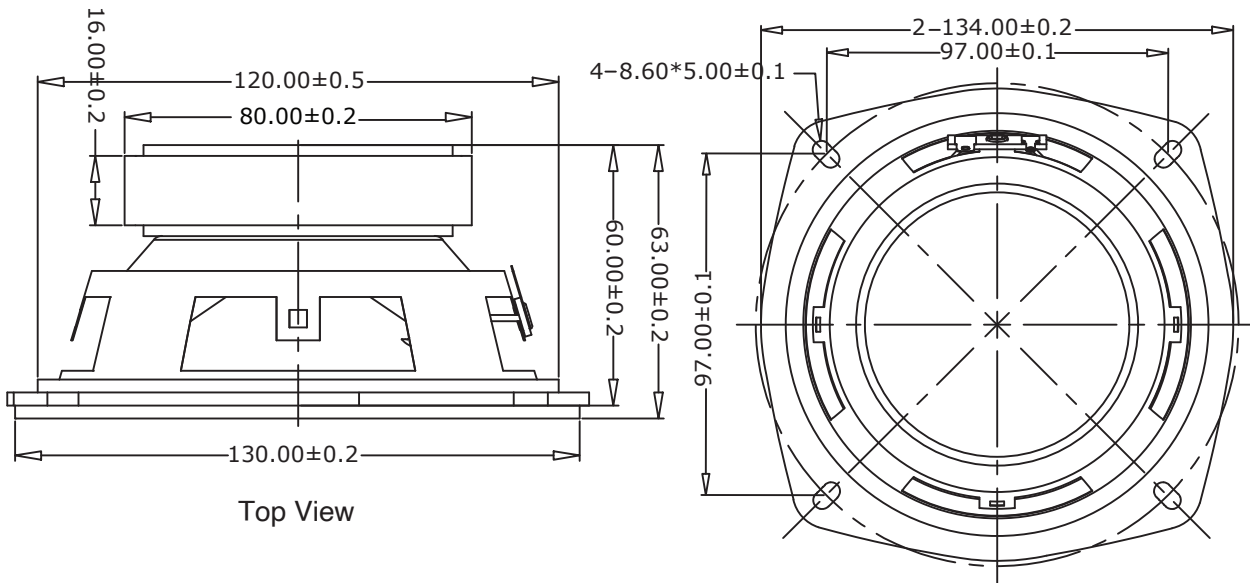
Top View

Front View

Installation Hole

3D View

Speaker Connector Details

Note: All views and illustration of the speaker connector are not 1:1 scale.

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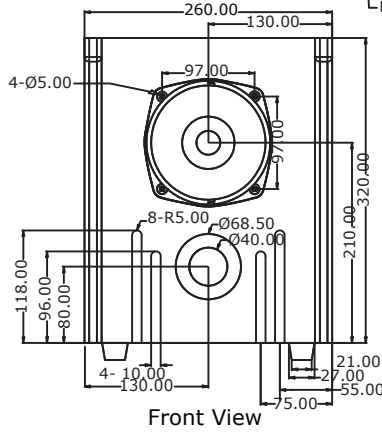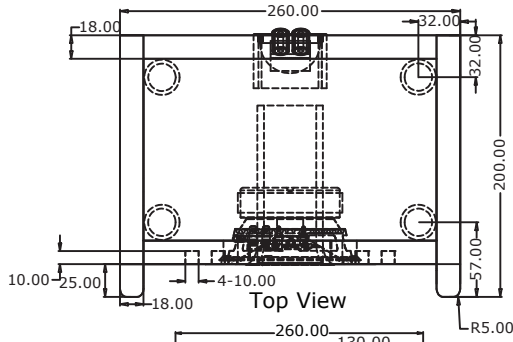
SUFR12025
Data Sheet

Box Properties 1

Type: Vented Box
Shape: Prism

Box Parameters

Calculated Vb = 20.37lts
Calculated V (total) = 20.74lts
Actual Vb = 8.84lts
Qtc = 0.846
F3 = 41.39Hz
Fill = Normal

Top View

Front View

Side View
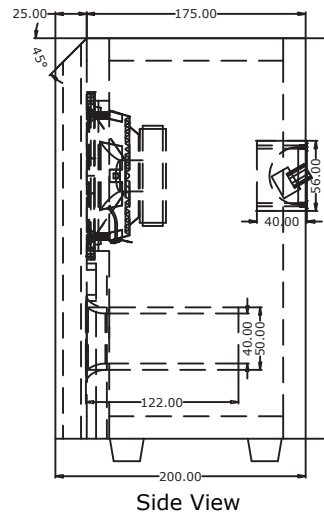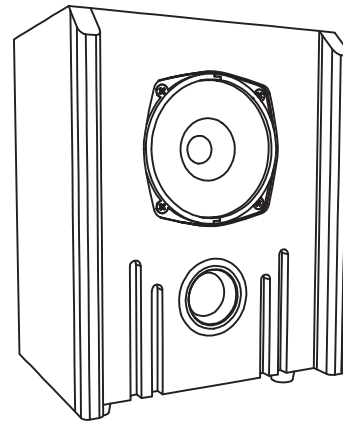
Notes:
1. This speaker box is designed and optimized for 5 inch full range speaker.
2. 3D model is provided for free in our resale website www.sure-electronics.com.
3. Actual volume is different with calculated value, but tested and verified, it is an optimized value after prototypes.
4. This model might work with 5 inch full range units from other brands, but performance is not guaranteed.
5. This speaker box unit is for sale and not a standard accessory, customer can find in our website.
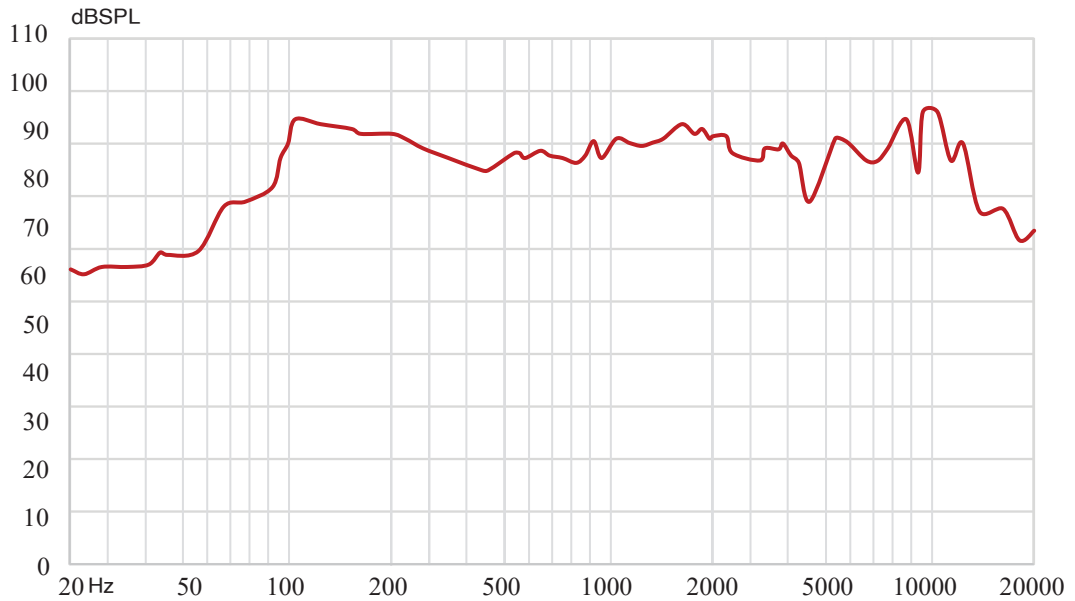
Desktop Stereo Application

Note:
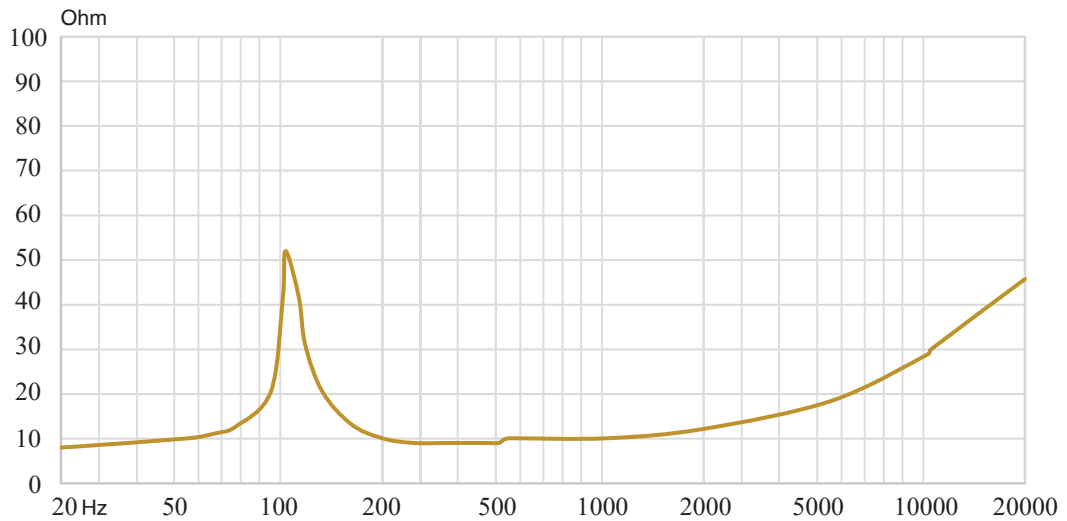1. Application of this speaker is not limited to desktop stereo application only.

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Frequency Response

SPL vs Freq

Impedance Curve

Impedance Vs Frequency

RoHS

- MOQ and SPQ is 1pcs speaker per small cardboard box for retail, incremental is one SPQ 1pcs.
- MOQ and SPQ is 17pcs small cardbox box per carton (530x290x230mm) for wholesale, incremental is one SPQ 17pcs.
- The wooden speaker cabinet is for sale, MOQ and SPQ is 1pcs per small cardboard box.

Drafted: ....

Approved: ....

Countersigned: ....