

3" Surface Mount Woofer



- **Space Efficiency:** An extraordinary rigid flat woofer seamlessly blends into any environment with ventilation air to reduce power compression and improve heat dissipation.

- **Lightweight:** A slim speaker derived from the durable enclosure polypropylene material maintains rigidity at high temperatures.

Applications:

Mechanical Drawing

Front View

20.0

30.0

Ventilation Air

Top View

240.0 ± 0.5

222.0 ± 0.3

$\varnothing 11.0$

120.0

120.0

15.0

15.0

89.5 ± 0.5

320.0 ± 10

$\varnothing 78.0 \pm 0.3$

$\varnothing 90.0 \pm 0.1$

29.0 ± 0.3

Side View

25.5 ± 0.5

8.0

Rear View

$\varnothing 36.0$

$\varnothing 41.5$

1. Drawing is not in 1:1 scale
2. Dimensions not indicated with the tolerance in the 2D drawing will be XYZ: $\pm 0.2\text{mm}$.

A technical drawing of a square plate with a central circular hole. The hole is surrounded by a textured, possibly porous or granular, material. The plate is secured by four corner fasteners, each consisting of a bolt and a nut. A small screwdriver is shown inserted into one of the fasteners, indicating they are being tightened or loosened.

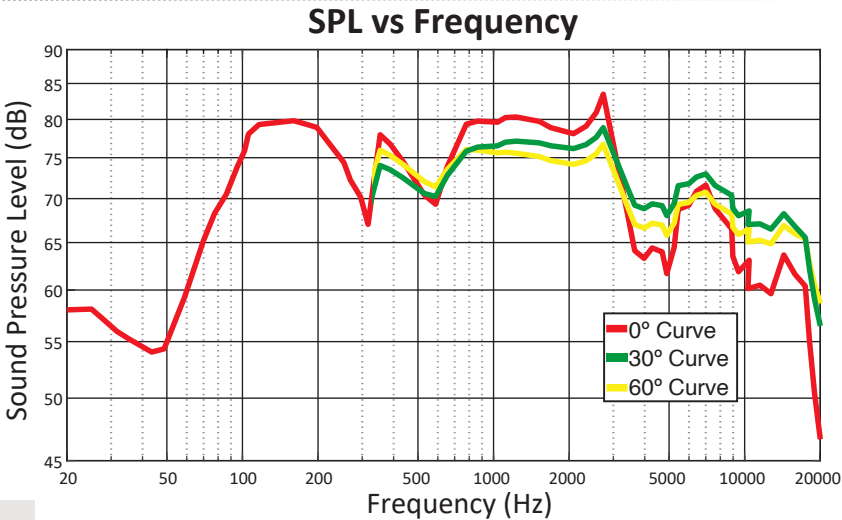
Specifications

T-S Parameters:		Minimum Impedance [Zmin]	7.4Ω ± 0.2Ω at 20Hz (LCR Meter, LCR-6100)
Resonance Frequency [fs]	160Hz ± 20Hz	Maximum Impedance [Zmax]	23.4Ω ± 0.3Ω at 160Hz
Sensitivity (1W/1m)	80dB	DC Resistance [Re]	7.5Ω ± 0.02Ω at 0Hz
Power Handling		Voice Coil Inductance [Le]	1.61mH at 2kHz 0.59μH at 20Hz
Rated Power Input	15W	Mechanical Data	
Max Power Input	30W	Max Mech. Excursion	± 2mm
Electrical Data		Unit Weight	423.5g ± 2g
Normal Impedance [Zn]	8Ω at 1kHz		

Frequency Response

The graph displays the sound pressure level (SPL) measured by a microphone (M31) positioned 1 meter from the speaker. Notably, it illustrates the frequency response for free-field SPL at 0°, 30°, and 60° angles using an IEC baffle. The graph shows a prominent resonant peak at 160Hz, reaching 83dB. After this peak, there's a sharp decrease around 200Hz. However, the SPL starts to rise again at 413Hz and stabilizes from 600Hz to 2.6kHz. This indicates a well-balanced distribution of sound where the input and output signals are equivalent.

Environment Conditions	
Test Instrument	: LMS Software, Microphone (M31)
Testing Temperature	: 18°C ~ 27°C
Humidity	: 40% - 90% RH
Site Evaluation	: Anechoic Room (Shenzhen, China)

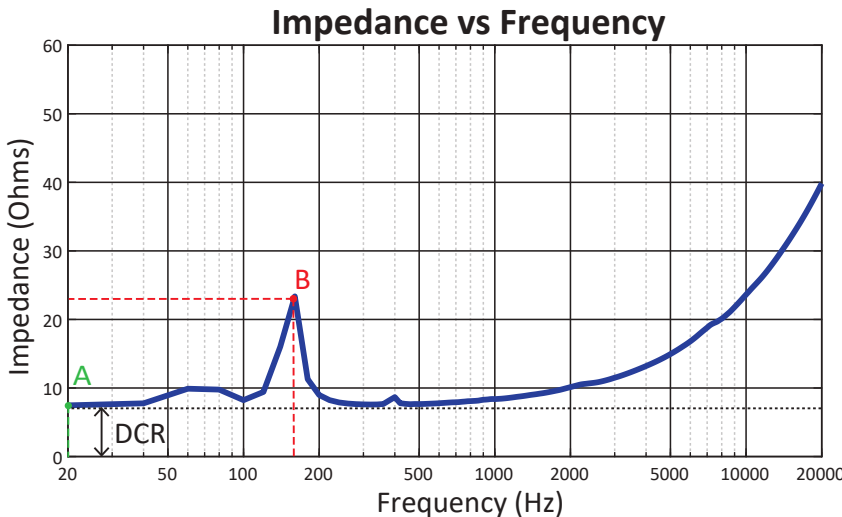


- Notes:
1. Data in the SPL graph has derived from tests conducted within the LMS software.
 2. Data analysis software was utilized to create the graphical representation of the data.

Impedance Curve

During testing conducted with an LCR meter, the impedance chart displays a notable peak impedance of 23.4Ω at 160Hz, exhibiting a phase angle of 0 degrees. This observation serves as a clear indication of the resonant frequency of the driver when operating in free air. It's important to emphasize that the data collection process occurred under controlled conditions, ensuring consistent environmental factors such as temperature and humidity, while also minimizing any potential influence from external sources of noise.

Environment Conditions	
Test Instrument	: GW Instek (LCR-6100)
Testing Temperature	: 15°C ~ 30°C
Humidity	: 40% - 90% RH
Site Evaluation	: Anechoic Room (Penang, Malaysia)

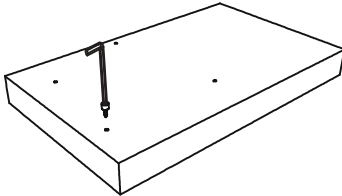


Point	Impedance	Frequency	Detail
A	7.4Ω	20 Hz	Minimum Impedance [Zmin]: Lowest impedance
B	23.4Ω	160 Hz	Resonant Frequency Peak: Max vibration frequency peak.
DCR	7.5Ω	0 Hz	DC (Resistance): Constant value independent of frequency.

Mounting Guidelines

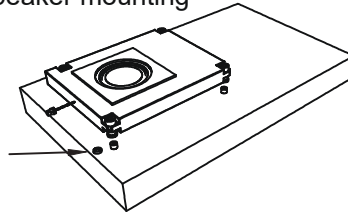
i) For Wood Surface

1) Insert through the customized socket head on the drilled hole

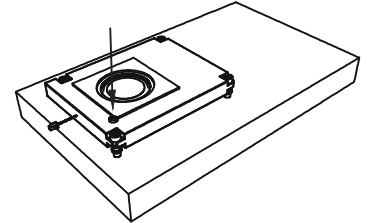


Note: The drilled hole shall be Ø3mm and 0.5mm pitch thread

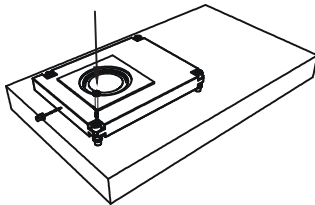
2) Insert one pieces nylon washer (Ø 3mm) in stacking form under the speaker mounting



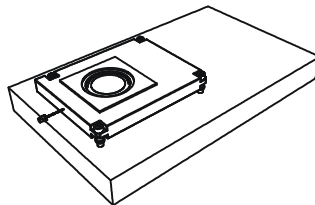
3) Place another nylon washer (Ø 5mm) on the rubber mounting



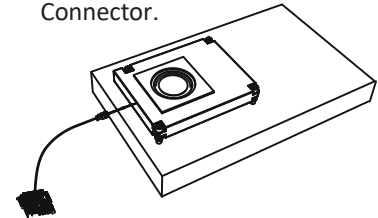
4) Fasten the screw using the provided 3mm wrench.



5) Installation is finished.



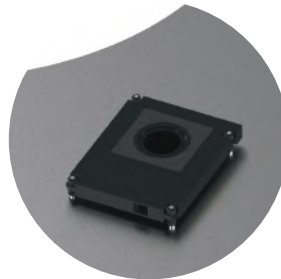
6) Connect the speaker with other Wondom JAB & KAB board by JST SMP-02V-B Plug Terminal Socket Connector.



Mounting Application



Wood Surface Mounting



Top View Metal Surface Mounting



Side View Metal Surface Mounting

Note: 3D view is not in 1:1 scale

Special Accessories



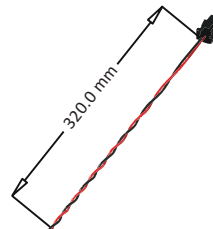
ST6.3 Customized
Socket Head Self
Tapping Screw



M6 Customized
Socket Head Screw



3mm



JST Plug Housing Connector
to JST SMP-02V-B Plug
Terminal Socket Connector



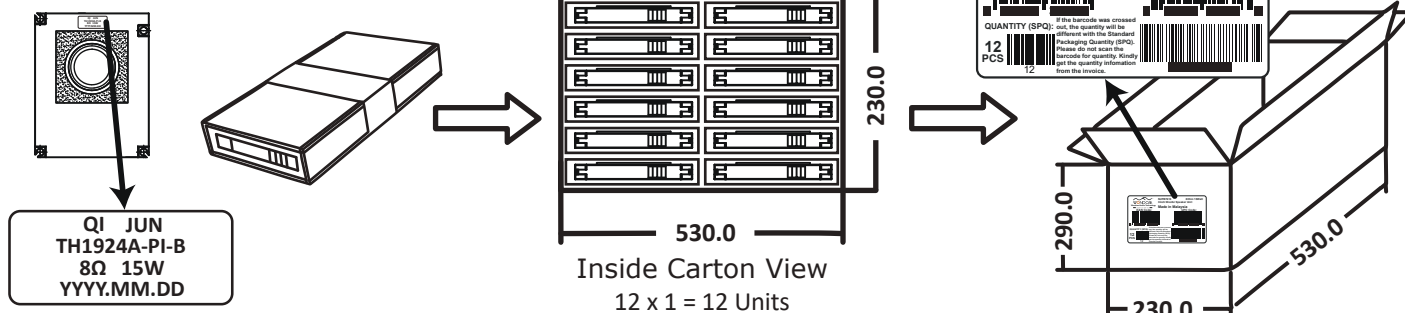
Nylon
Washer

Notes:

1. These special accessories are for sale and not a standard accessory, customer can find in our website.
2. If you wish to customize your accessories, please reach out to our customer service for personalized assistance.

Packaging

Carton Size : 530 x 230 x 290 mm



Frequently Asked Questions

1. Does your company offer amplifiers specifically compatible with the SUPB7615, along with detailed specifications for the SUPB7615 itself and cabinets?

Our company specializes in premium audio amplifiers specifically crafted to enhance the performance of the SUPB7615 speaker unit seamlessly. You can access details about these amplifiers on our website or by contacting our technical team for assistance. Our website also provides detailed specifications, high-quality images, and downloadable files of the speaker unit and cabinets. For further inquiries, please contact our marketing department.

2. Is the SUPB7615 available from existing stock without the minimum order quantity requirement?

Our inventory consistently sustains the stock of the SUPB7615, owing to its regular production by our manufacturing facilities. There exists no minimum order quantity (MOQ) stipulation for this product. Orders surpassing 1000 units can be swiftly dispatched within a few days. Conversely, we assure prompt fulfilment for orders falling below 1000 units as the speaker can be dispatched expeditiously.

3. What is the anticipated shelf life of the speaker, especially regarding non-tail goods intended for long-term supply?

The SUPB7615 undergoes stringent testing, including environmental assessments and Mean Time Between Failure (MTBF) evaluations at temperatures ranging from 55°C to 65°C. These tests confirm the speaker's extended shelf life, ensuring reliability and durability even in demanding conditions. This reliability makes it ideal for prolonged storage, particularly for non-tail goods intended for long-term supply.

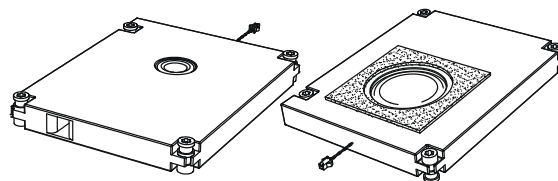
4. Is there a sufficient long-term supply of the product available for an extended period?

The SUPB7615 has been meticulously maintained in-house for at least ten years to guarantee consistency and accessibility. We always keep a sufficient stock of the SUPB7615 to meet any requirements. If you have any questions, please get in touch with our customer service.

Service and Warranty

Service of WONDOM products should only be carried out by service agents. If service is required, the equipment should be returned, securely packaged, preferably using original packing, to your dealer. A note should be enclosed with your name, address, telephone number, and a brief description of the reason for return. WONDOM promises all standard products life cycle more than 5 years. WONDOM warrants this product to be free from defects in materials and workmanship in two years. If the package has been opened and components have been soldered, it will be considered acceptable; however, please note that no warranty will apply to modified products. In the case of returned products with insufficient components or defects due to faulty materials, workmanship, or function, WONDOM will address the issue by providing necessary components, offering a refund, or replacing the product at WONDOM's discretion. For further assistance in such cases, please contact your dealer.

Distributed by:



Origin and Design Location

All Wondom products are designed, manufactured, assembled, and shipped from China. The products' country of origin is China. We do not provide any services for sales, shipping, or manufacturing from other regions.

About the Manual

This manual displays general installation guidelines. However, please note that proper installation of mobile audio components requires qualified experience. If you do not have the knowledge and tools to successfully perform this installation, we strongly recommend consulting an authorized WONDOM dealer about your installation options. Keep all instructions and sales receipts for reference.

Designed by:

WONDOM
Wondom Audio Technology
— Have Fun with Us —

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