

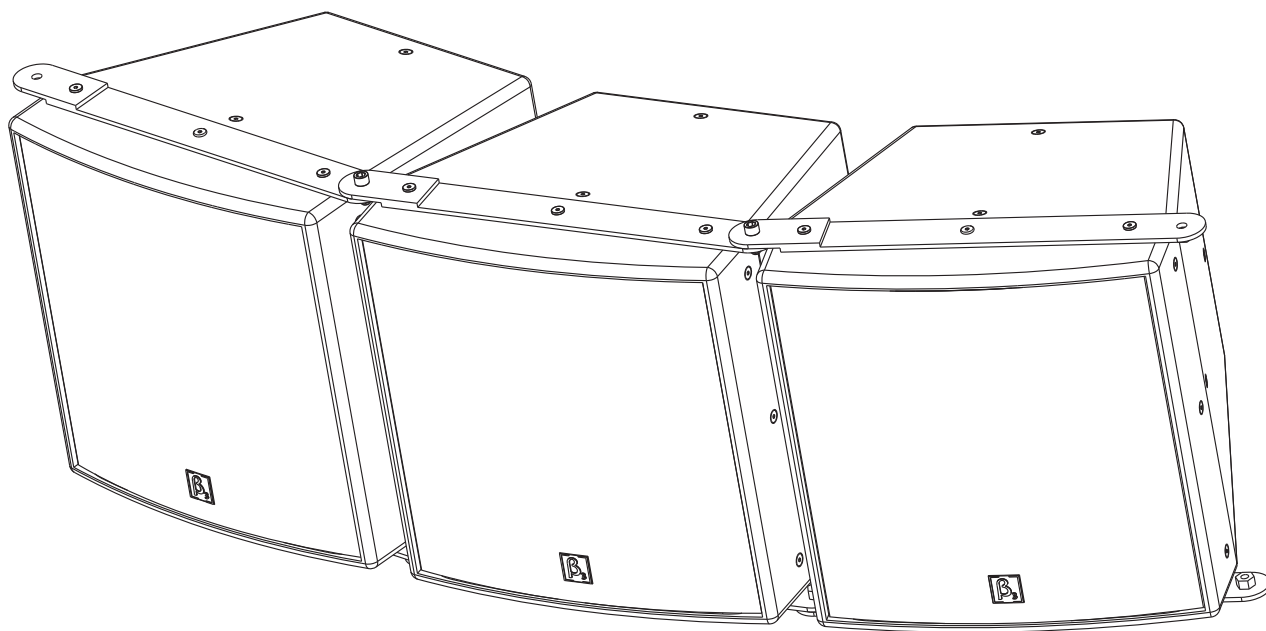


Beta Three

TH306H/64
TH306H/94
TH115L

TH Series Theatre Speaker

User Manual **EN**





UM-TH SERIES-20161005 Ver A


SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for buying β_3 product. Read this manual first as it will help you operate the system properly. Please keep this manual for future reference.

⚠ WARNING: *This product must be installed by professionals. When using hanging brackets or rigging other than those supplied with the product, please ensure they comply with the local safety codes.*

	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.		

 **The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.**

⚠ ATTENTION: *Don't refit the system or spare parts without being authorized as this will void the warranty.*


⚠ WARNING: *Don't place naked flames (such as candles) close to the equipment.*

1. Read the instruction manual first before using this product.
2. Please keep this manual for future reference
3. Pay attention to all warnings.
4. Obey all operating instructions.
5. Do not expose this product to rain or moisture.
6. Clean this equipment with a dry cloth.
7. Do not block any ventilation openings. Install according to manufacturer's instructions .
8. Do not install this product near any heat source, such as a, heater, burner, or any other equipment with heat radiation .
9. Only use spare parts supplied by the manufacturer.
10. Pay attention to the safety symbol on the outside of the cover.



CONTENT

Product Introduction	3
Main Features	3
Product description	3
Application	3
Connection	4
Installation	5
Technical Specification	6
TH306H Specifications	6
TH306H FR and Impedance curve	7
TH115L Specifications	8
TH115L Frequency Response and Impedance curve	8
Dimensions	9

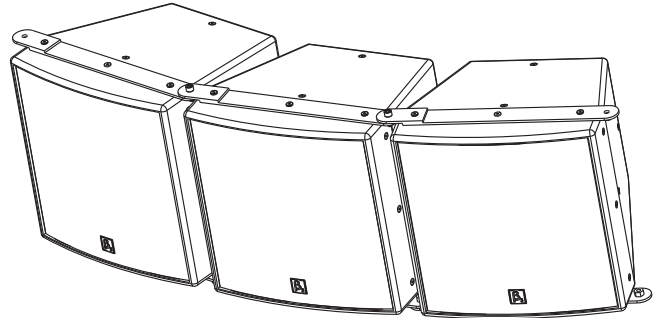
 Product information is subject to change without prior notification. Please visit www.b3pro.com for latest updates.

TH306H/64 TH306H/94 TH115L

TH Series Theatre Speaker

Key Features:

- High strength cabinet structure
- Computer aided design to optimize frequency and phase response
- Same cabinet size, easy to be configuration as an array
- Use as theatre main system



Product description:

β 3 TH series speaker features the newest high reliable and more powerful transducer which not only provide higher efficiency, but also improve the sound quality.

TH series full range speaker applied ourselves R&D technology. the waveguide; it has smooth frequency response, low distortion and high definition sound. It can also provide even partial shaft frequency response within the prospective coverage.

TH series speaker with precisely cross-over and filter can provide the optimized sound with low offaxis lobes.

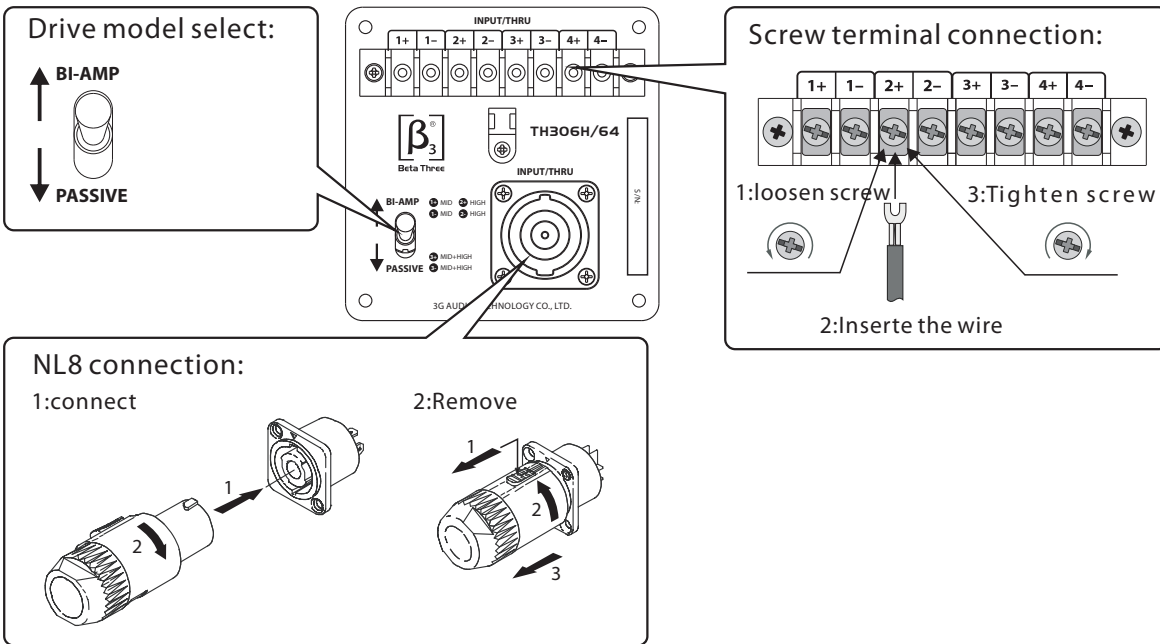


TH306H can be connected with AMP via 1 Pcs NL8 conector and screw terminal. Two bridge connectors can easily connect with another speaker.

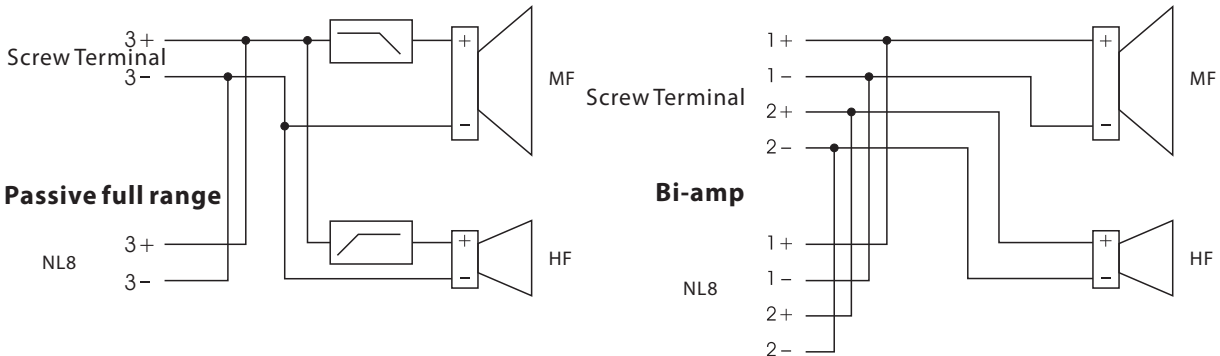
TH306H with passive full range and crossover Bi-amp drive models, can be selected via switch button.

- ⚠ Caution: According to the actual use of drive mode, select the correct model via switch button.
- ⚠ Caution : Pay attention to the impedance between speaker and amplifier.
- ⚠ Caution : Make sure the speaker and amp connected properly.

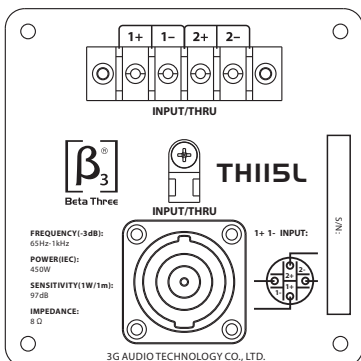
TH306H Rear Panel:



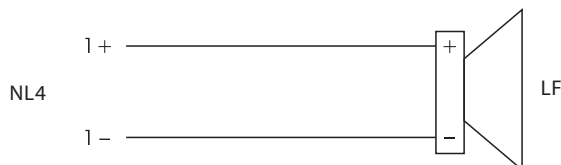
TH306H connection drawing:



TH115L Rear Panel:



TH115L Connection Drawing:



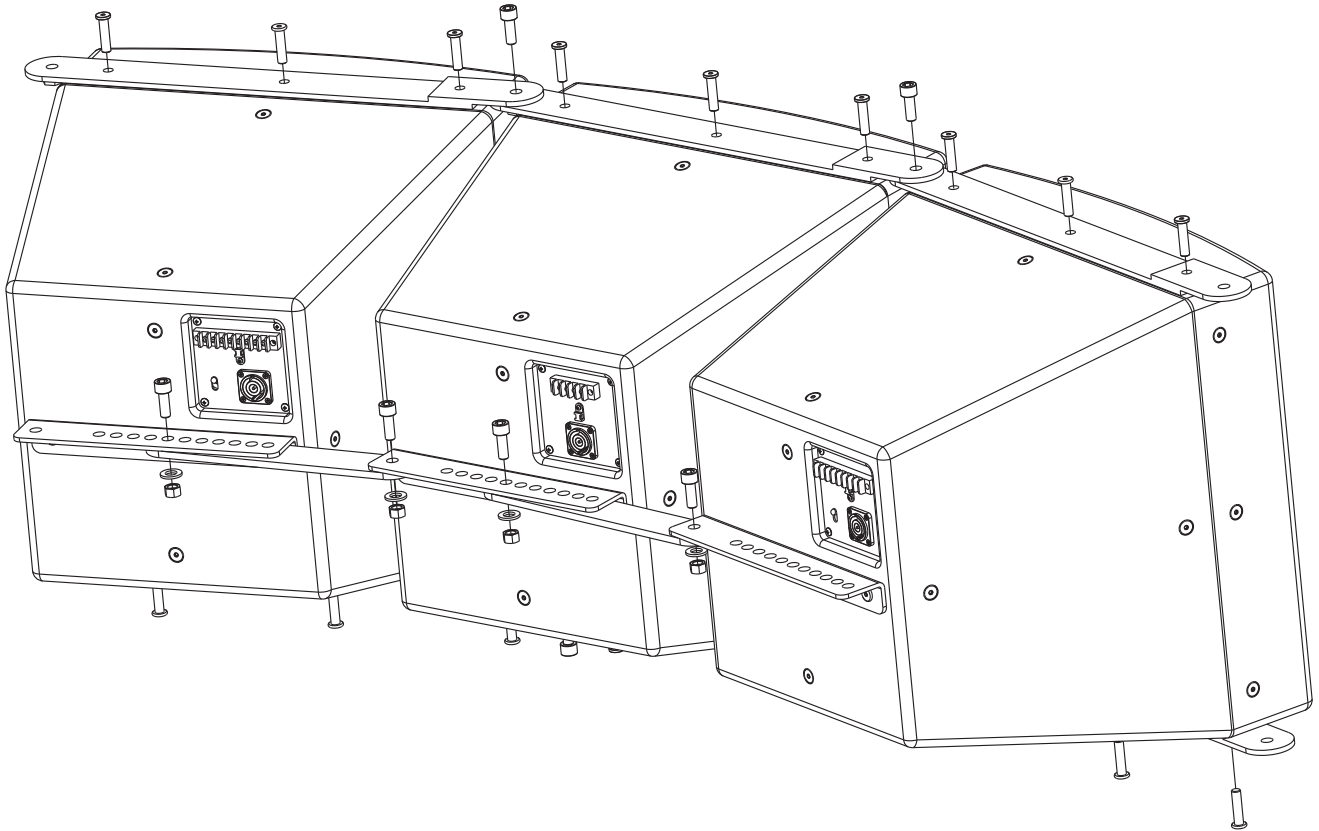
Installation:


TH306H and TH115L have same cabinet size, easy for array application.

For example:

2Pcs TH306H + 1Pcs TH115L

1Pcs TH306H + 2Pcs TH115L



 **Warning:** Ensure all accessories are full compliance with local safety regulations when installing.



TH306H Specifications:

Product:	6" Two Way MF/HF Speaker
Transducers:	1X1.75" HF 1X6" MF
Frequency Response (-3dB) ¹ :	280Hz-20kHz
Sensitivity(1W@1m) ² :	Passive mode:106dB(TH306H/64) 106dB(TH306H/94) Bi-amp mode:MF:106dBHF :112dB
Maximum SPL(1m) ³ :	Passive mode: 126dB/132dB(Peak) Bi-amp mode: MF:126dB/132dB(Peak) HF:126dB/132dB(Peak)
Power (GB) ⁴ :	Passive mode: 100W RMS ⁴ Bi-amp mode: MF:100W RMS ⁴ HF : 60W RMS ⁴
Dispersion(H×V):	TH306H/64: 60°× 40° TH306H/94: 90°× 40°
Impedance:	Passive mode 8 Ohms Bi-amp mode: MF: 8 Ohm HF: 8 Ohm
Crossover point:	2kHz-2.5kHz
Construction:	15mm Plywood
Installation:	24×M10 Steel Mounting Point Paint: Durable Polyurethane textured paint Black powder coated grille
Connector:	NL8×1、8 Screw terminal
Dimensions (W×D×H):	520×520×520mm(20.5×20.5×20.5in)
Packing Dimensions (W×D×H):	630×630×640mm(24.8×24.8×25.2in)
Net weight:	25.0kg(55.5 lbs)
Gross weight:	37.0kg(81.8 lbs)

Speaker Testing Method

1. Frequency Response

Use Pink noise to test the speaker in the anechoic chamber, adjust the level to make the speaker work at its rated impedance and set the output power at 1W, then test the frequency response 1m away from the speaker.

2. Sensitivity

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, Increasing the signal to make the speaker work at its rated impedance and set the power output at 1W, then test the sensitivity 1m away from the speaker.

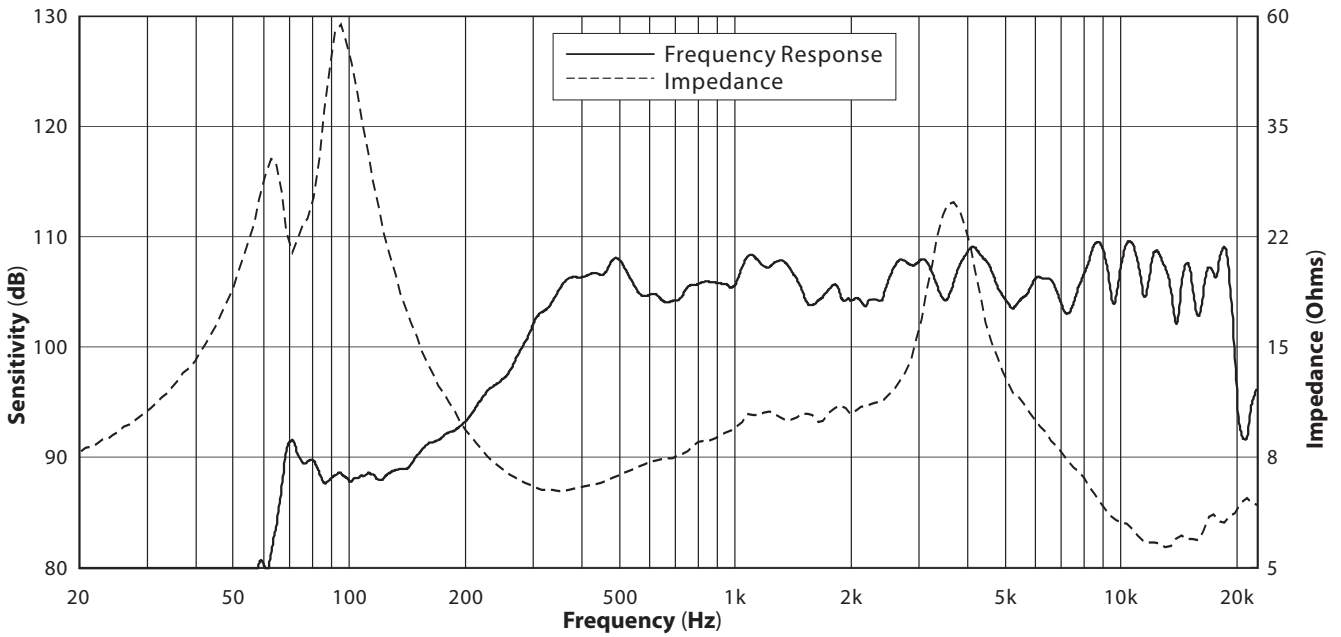
3. MAX.SPL

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber , increase the signal to make the speaker work at its maximum power output level, then test the SPL 1m away from the speaker.

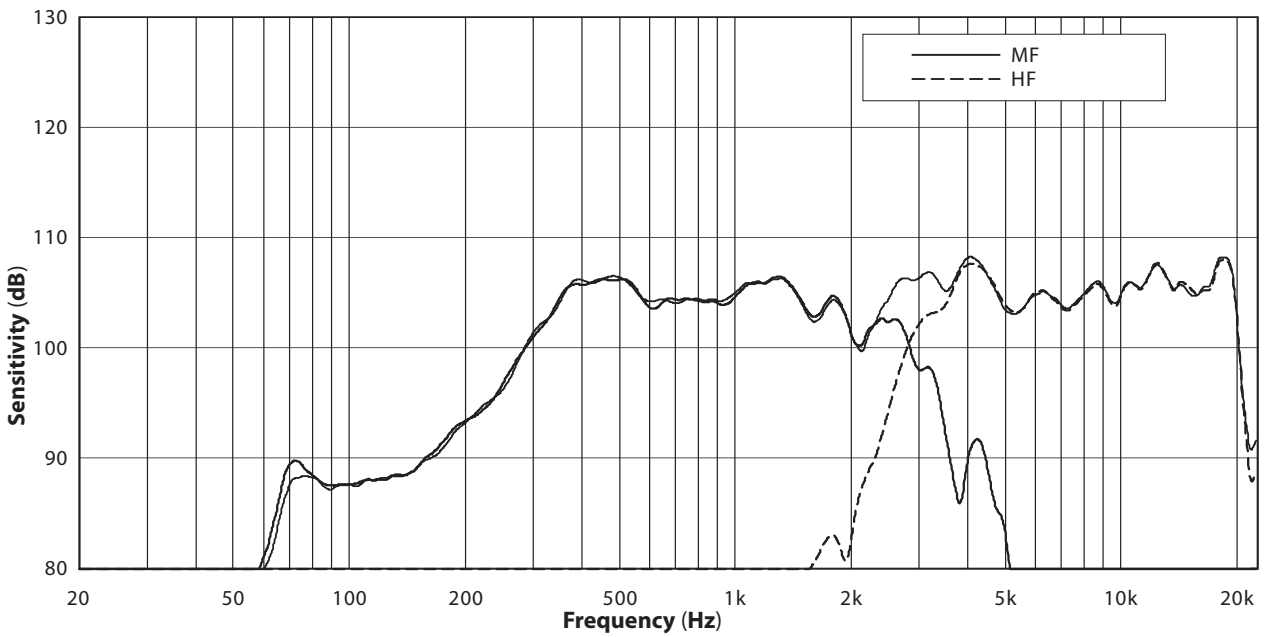
4. Rated Power

Use Pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of 100 hours, the rated power is the power when the speaker will show no visible or measurable damage.

TH306H/64(94)Frequency Response/Impedance Curve(Passive full range):



TH306H/64(94)Frequency Response(Bi-amp):



TH115L Specifications:

Product: 15" LF passive speaker
Transducers: 1X15" LF
Frequency Response (-3dB) ¹ : 65Hz-1kHz
Frequency Response (-10dB): 60Hz-1kHz
Sensitivity(1W@1m) ² : 97dB
Maximum SPL(1m) ³ : 117dB/123dB(Peak)
Rated Power ⁴ : 450W (RMS)
Rated Impedance: 8 Ohms
Construction: Plywood
Paint: Durable Polyurethane textured paint Black powder coated grille
Connector: 1×NL4+Screw terminal
Dimensions (W×D×H): 520×520×520mm(20.5×20.5×20.5in)
Packing Dimensions (W×D×H): 630×630×640mm(24.8×24.8×25.2in)
Net weight: 24.5kg(53.9 lbs)
Gross weight: 36.5kg(80.3 lbs)

Speaker Testing Method

1. Frequency Response

Use Pink noise to test the speaker in the anechoic chamber, adjust the level to make the speaker work at its rated impedance and set the output power at 1W, then test the frequency response 1m away from the speaker.

2. Sensitivity

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increasing the signal to make the speaker work at its rated impedance and set the power output at 1W, then test the sensitivity 1m away from the speaker.

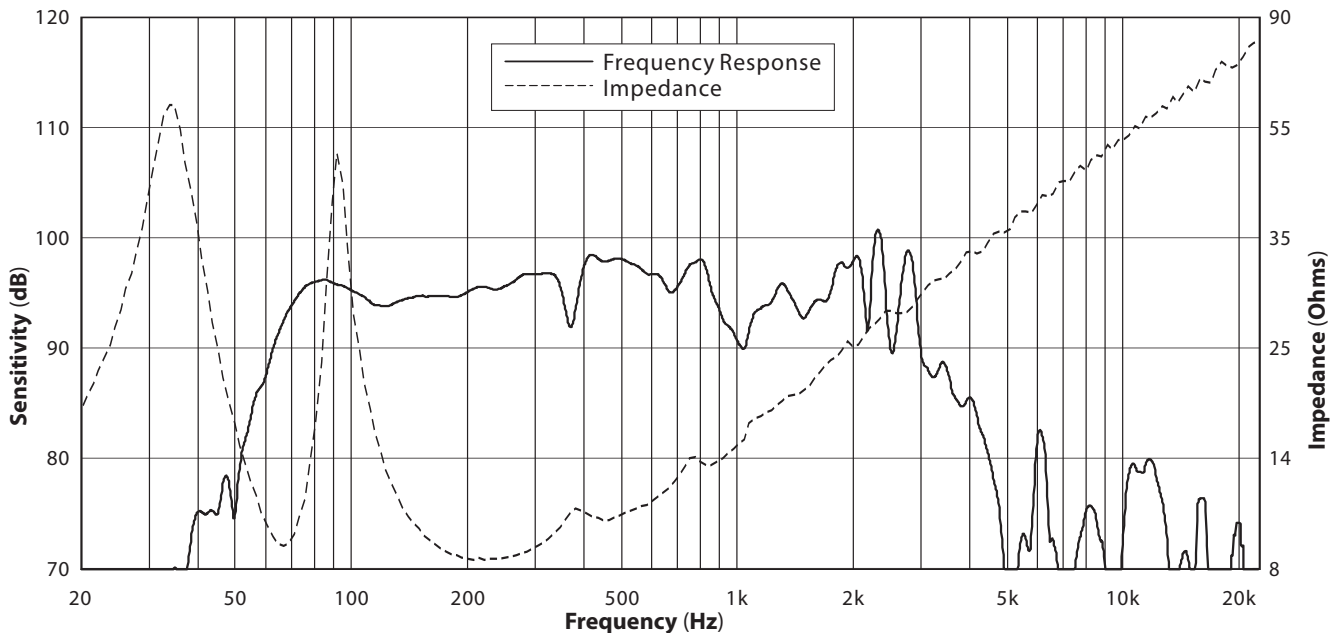
3. MAX.SPL

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increase the signal to make the speaker work at its maximum power output level, then test the SPL 1m away from the speaker.

4. Rated Power

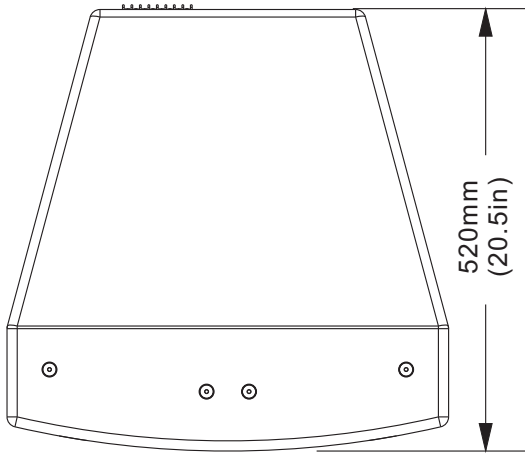
Use Pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of 100 hours, the rated power is the power when the speaker will show no visible or measurable damage.

TH115L Frequency response and Impedance curve:

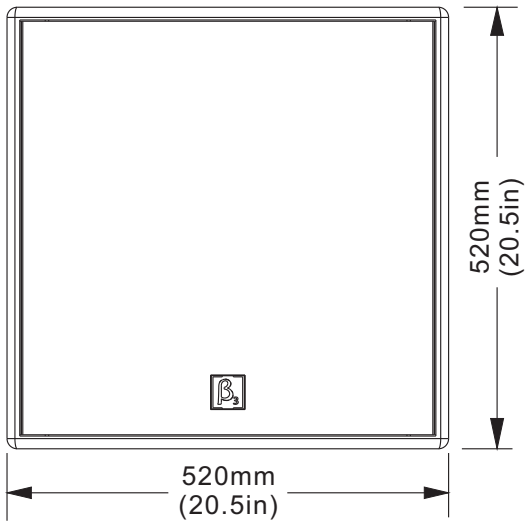


2D Dimension

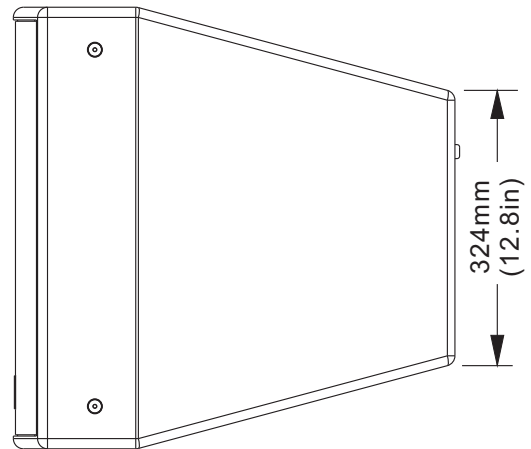
Top View



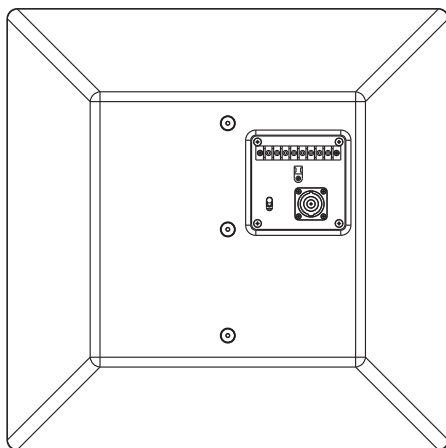
Front View



Side View



Back View



Notes:



Beta Three