

## Active Precision Coverage Vertical Array

### MAIN APPLICATIONS

- Permanent installations in:
  - Theatres and Concert Halls
  - Clubs
  - Places of Worship
  - Conference Rooms
  - Indoor Sports
  - Arenas and Stadiums
- Sound reinforcement for live events: Touring, Bands, Orchestras

### MAIN FEATURES

- High impact polypropylene gas-injected enclosure
- Class D amplifiers, 600W RMS to the LF, 300W RMS to the HF
- 2 x 6.5" B&C neodymium woofers with 1.7" coil
- 1.4" exit B&C neodymium driver with 2.5" coil
- DSP on board with 8 preset
- 100° horizontal waveguide
- Input panel with XLR «in&link», volume, preset, HF
- level, HP filter, GND lift switch
- High SPL capability: 134dB
- Integrated rigging hardware
- Very lightweight: 14kg
- Completely Manufactured in Italy



### DESCRIPTION

The FBT MITUS 206LA speaker features lightweight, yet rugged gas injected molded polypropylene cabinet construction. The FBT MITUS 206LA is a two-way design incorporating 2 x 6.5" B&C neodymium woofers with 1.7" voice coil and 1.4" exit B&C neodymium driver with 2.5" voice coil. The modularity of the FBT MITUS 206LA makes it extremely flexible for a wide range of applications, from a small 2 cabinet P.A. system to an elaborate line array system consisting of up to 12 MITUS 206LA cabinets along with multiple FBT MITUS 212FSA subs for large concert events. The FBT MITUS 206LA shall meet the following performance criteria: Frequency response of 68Hz to 20kHz, Maximum SPL of 134dB, class D amplifier module that provides 600W RMS to the LF and 300W RMS to the HF. The waveguide, optimized by BEM finite element simulation, offers 100° horizontal dispersion; engineered to be perfectly integrated with the HF compression driver it allows the dispersion of a flat acoustic wave to over 18kHz. The MITUS 206LA cabinets coupling hardware is internally integrated and allows the suspension of 12 arrays with a 10:1 safety factor. The front shall be protected by a heavy duty metal grille with anti-resonance spacers and exclusive synthetic cloth to protect the drivers. The FBT MITUS 206LA provides a wide range of hardware accessories for flying and ground stacked configurations.

### TECHNICAL SPECIFICATIONS

#### GENERAL

Configuration	way	2
Low frequency woofer	inch	2 x 6.5 - 1.7 coil
High frequency driver	inch	1 x 1.4 - 2.5 coil

#### ACOUSTIC SPEC.

Frequency response	(@ -6dB)	68Hz - 20kHz
SPL max. (cont / peak)**	dB	125 / 134
Dispersion	H x V	100° x 10°max Dependant upon n° of elements
Crossover Frequency	kHz	1.2

#### INPUTS / OUTPUTS

Connectors		XLR with loop
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#### POWER SUPPLY

AC Power requirement	VA	640
Power cord	mt ft	5 16.4

#### AMPLIFIER

Built-in amplifiers LF - HF (cont./max)*	W RMS	400 - 200 / 600 - 300
Built-in amplifiers LF - HF (peak)*	W	1200 - 600
Input impedance	kOhm	22

#### MECHANICAL SPEC.

Material		Polypropylene
Net size ( WxHxD )	mm inch	574 x 220 x 383 22.6 x 8.7 x 15.1
Net weight	kg Lbs	14 30.8

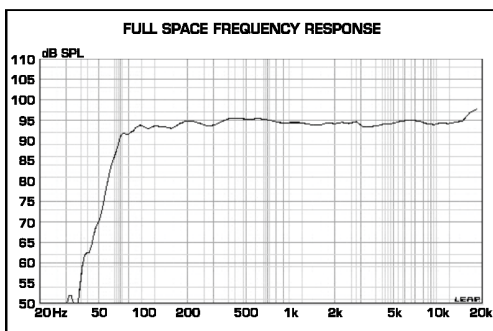
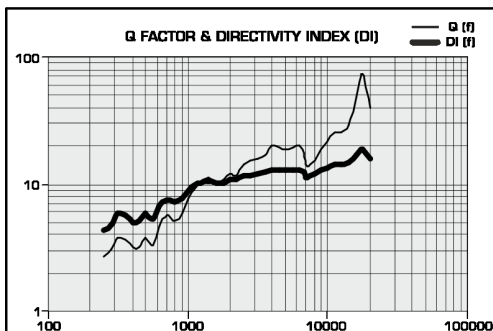
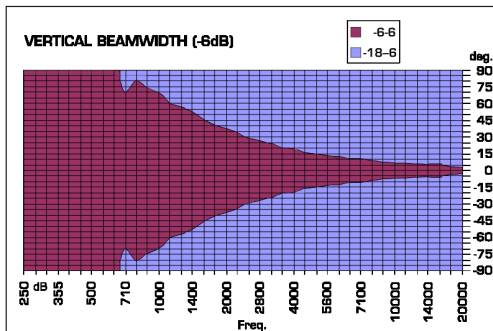
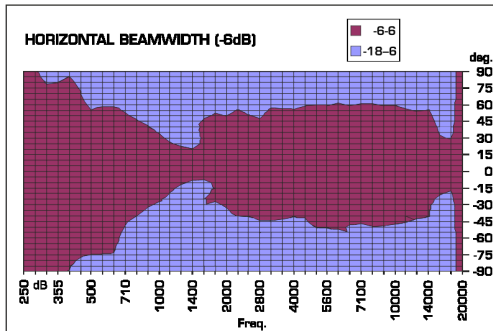
\*CONT.: 500mS, RMS power on nominal speaker impedance / MAX.: 2mS burst, RMS power on nominal speaker impedance / MAX PEAK: based on max peak output voltage and nominal speaker impedance

\*\* CONT. SPL: half space, based on continuous power amp rating and LF transducer average sensitivity data, 125mS time average

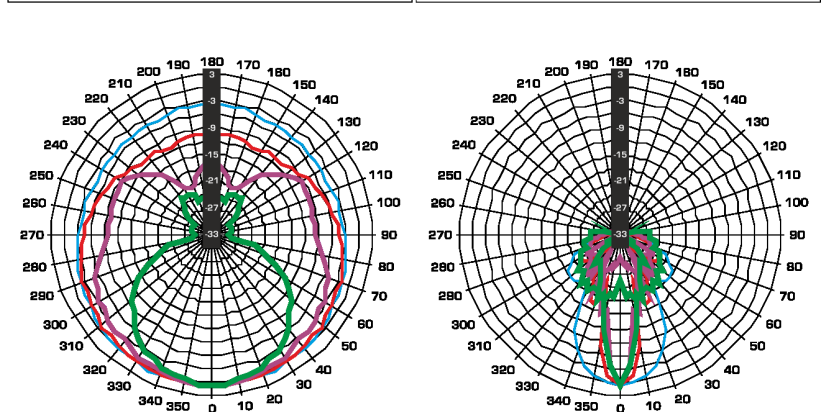
PEAK SPL: half space, based on max peak power amp rating and system peak sensitivity, 10mS time average

FBT S.p.A. strive to improve their products continuously, and therefore reserve the right to make changes to the drawings and technical specifications at any time and without notice.

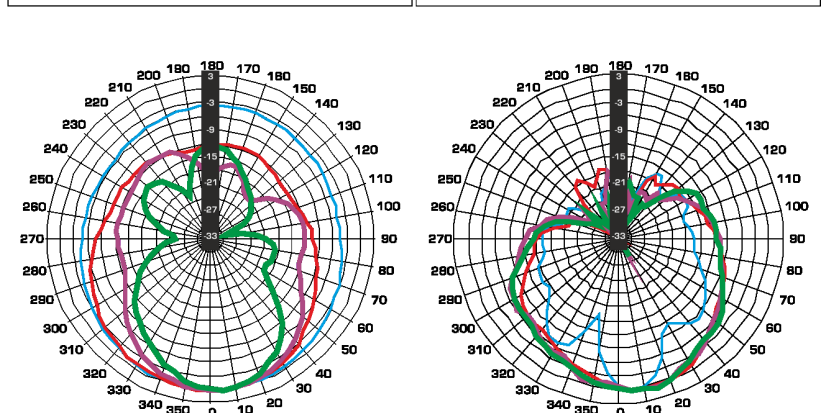
## DIAGRAMS



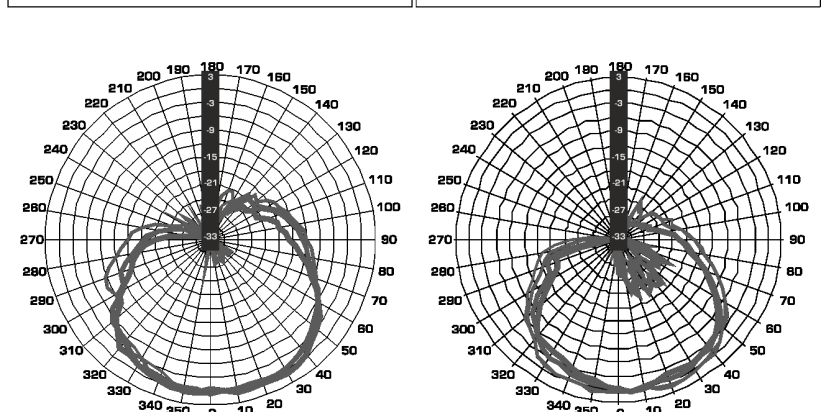
**VERTICAL POLAR DIAGRAM**



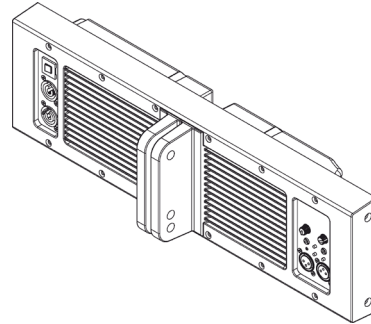
**HORIZONTAL POLAR DIAGRAM**



**HORIZONTAL POLAR DIAGRAM**



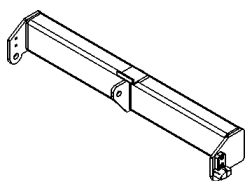
The FBT MITUS 206LA provides a high-efficiency Class D power amplifier module with switching power supply enclosed in a die-cast aluminium chassis. This permits to protect the electronics against dust, avoid any air loss through the controls – which would cause annoying noises- and maximize heat loss by using the woofer ventilation instead of a cooling fan. The module works also as a bearing structure for flying the units and permits adjusting the inclination angle.

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Technical drawings of the FBT 1500W speaker showing front, top, and side views with dimensions:

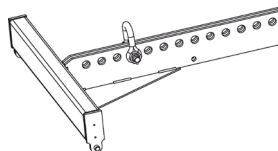
- Front View:** Shows the speaker's profile with a width of 383 mm / 15.1 inch.
- Top View:** Shows the speaker from above with a depth of 574 mm / 22.6 inch.
- Side View:** Shows the speaker's side profile with a height of 193 mm / 7.6 inch.
- Bottom View:** Shows the speaker's base with a width of 510 mm / 20 inch.

## ACCESSORIES



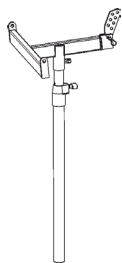
**MT-J206**

Joint bar MITUS 212FS/FSA with 206L



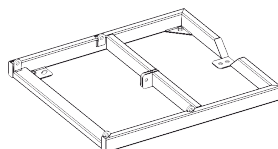
**MT-F206**

Flying bar MITUS 206L



**MT-S206**

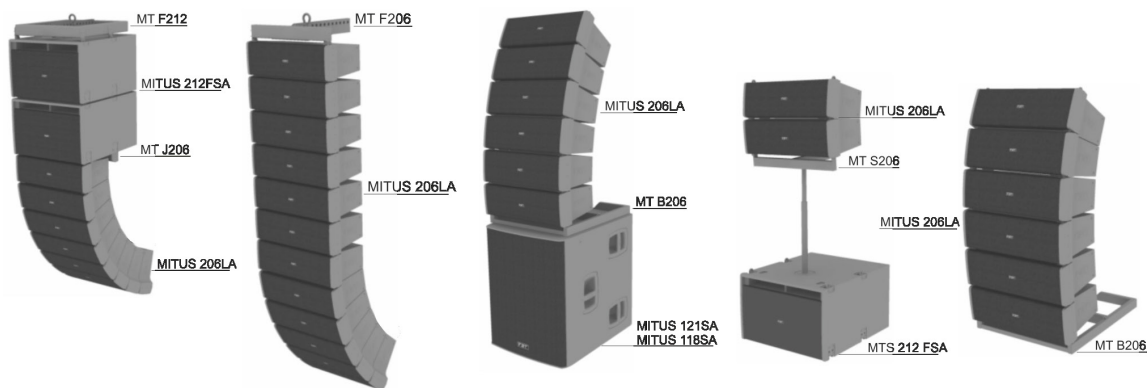
Cluster bracket with speaker pole for 2 x MITUS 206L



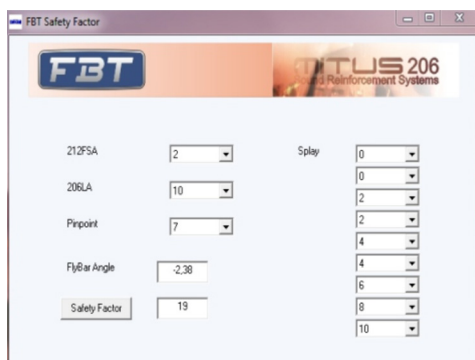
**MT-B206**

Metal base to ground MITUS 206L array or stack on MITUS 118SA/S or MITUS 121SA/S

## RECOMMENDED CONFIGURATION



## EASE FOCUS



FBT will place at disposal a software called MITUS 206L\_FLYING which helps calculating the safety factor of the weakest point of MITUS 206LA - MITUS 212FSA unit suspension system according to the used configuration and a software called EASE FOCUS that permits an accurate simulation of the mechanical and acoustic behaviour of the MITUS series line array system.

