

SXF115

Compact Passive Subwoofer

Features

- Compact, high-performance subwoofer
- Ultra-long excursion 15" (380mm) driver with 4" (100mm) voice coil
- Large ports for reduced air noise
- Integral flying hardware compatible with WPM and MLA Mini
- M20 threaded pole-mount fitting
- Bar handles and skids

Applications

- Touring sound reinforcement for small and medium-size venues
- Fixed installations in concert halls, theatres, ballrooms and HoW
- Sports stadium and arena installations
- Corporate AV events and conferences



The SXF115 is a passive subwoofer designed to extend the performance of Martin Audio WPM and MLA Mini systems down to 42Hz. Featuring a powerful, long-excursion 15" (380mm)/4" (100mm) voice coil driver in a very compact bass reflex enclosure, it can be flown as part of a WPM or MLA Mini array, or ground-stacked separately.

The design of the 15" driver maximises output while minimising power compression and distortion, and four reflex ports reduce air noise at very high output levels. The SXF115 enclosure is constructed from multi-laminate birch ply, finished with a durable polyurethane coating and equipped with a perforated steel grille, skids and twin bar handles. An M20 threaded fitting in the top surface facilitates pole-mounting of up to 4 WPM or MLA Mini enclosures.

Being a passive subwoofer, the SXF115 is ideal for flown WPM or MLA Mini fixed installations where ground-based, rack-mount amplification is preferred — either for ease of servicing, increased IP protection, or reduced visible cabling in the air.

When used with a WPM or MLA Mini array, Martin Audio iKON amplifiers or the MSX rack-mount power plant respectively deliver the correct drive characteristics to the SXF115, with onboard DSP presets for a variety of system configurations. Cardioid operation can be achieved by arranging the SXF115 in forward and rear-facing pairs.

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Technical Specifications

TYPE	Compact, direct radiating subwoofer
FREQUENCY RESPONSE (1)	50Hz – 150Hz ± 3 dB, -10 dB @ 42Hz
DRIVER	15" (380mm)/4" (100mm) voice coil, ultra-long excursion, ferrite magnet
RATED POWER (2)	800W AES, 3200W peak
SYSTEM AMPLIFIER	iK42/81
SENSITIVITY (10)	103dB
MAXIMUM SPL(9)	136dB peak
NOMINAL IMPEDANCE	4 ohms
DISPERSION	Omnidirectional/or Cardioid (paired)
ENCLOSURE	Multi-laminate birch ply
FINISH	Textured black PU coating
PROTECTIVE GRILLE	Black HEX perforated steel
CONNECTOR	2 x NL4
PIN CONNECTIONS (INPUT)	LF: +1, -1 Link through: +2, -2
PIN CONNECTIONS (LINK)	LF: +1, -1 Link through: +2, -2
FITTINGS	Two skids on base, with mating channels on top M20 top-mounted thread plate for pole mounting Integral flyware for suspension of up to 4 SXF115 Large bar handle on each side Two front-mounted latch plates for wheelboard
DIMENSIONS (INCL SKIDS)	(W) 500mm x (H) 510mm x (D) 575mm (725mm incl wheelboard) (W) 19.7in x (H) 20.1in x (D) 22.6in (28.5in incl wheelboard)
WEIGHT	45kg (99lbs) 52kg (115lbs) incl wheelboard
ACCESSORIES	Wheelboard Transit cover

Notes

- Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- AES Standard ANSI S4.26-1984.
- Measured in half (2pi) space at 2 metres with 1watt input, using band limited pink noise, then referred to 1 metre.
- Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- Calculated at 1 metre.
- Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.

Architectural Specifications

The loudspeaker shall be a passive subwoofer capable of being ground-stacked or flown. Its transducer shall be a 15" ultra-long excursion driver in a bass reflex enclosure.

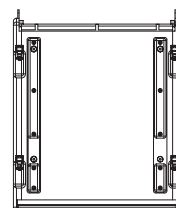
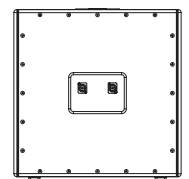
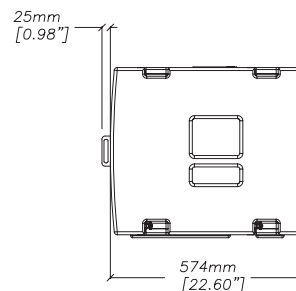
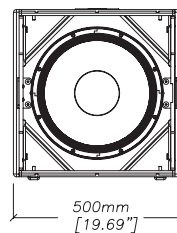
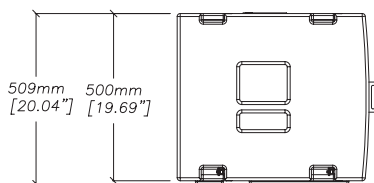
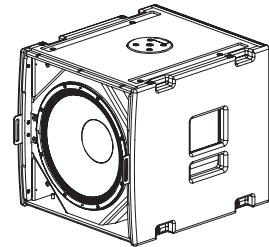
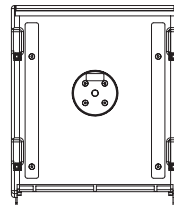
The on-axis frequency response shall be 50Hz-150kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 136dB peak calculated at 1 metre.

Power handling shall be 800W AES, 3200W peak. Rated impedance shall be 4 ohms. The rear connector panel shall be fitted with two NL4 type connectors and the loudspeaker shall be operated in conjunction with a dedicated controller amplifier.

The loudspeaker enclosure shall be constructed from multi-laminate birch ply with a textured black polyurethane coating. The driver shall be protected by a perforated steel grille and the enclosure shall incorporate an integral rigging system to assemble an array suspended from a dedicated flying frame. The enclosure shall be fitted with a threaded pole-mount plate, bar handles and skids.

Dimensions including skids (W x H x D) shall be 500mm x 510mm x 575mm (19.7in x 20.1in x 22.6in). Dimensions including skids and wheelboard (W x H x D) shall be 500mm x 510mm x 725mm (19.7in x 20.1in x 28.5in). Weight shall be 45kg (99lbs).

The loudspeaker shall be the Martin Audio SXF115.



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