

ARCHITECTURAL SPECIFICATIONS

MM-4XPD Directional Miniature Loudspeaker



The loudspeaker shall be self-powered and include a single 4-inch (103 mm) diameter cone transducer with a 4 Ω , long-excursion voice coil.

The loudspeaker shall incorporate a class-D power amplifier with a burst capability of 440 W peak into a nominal load of 4 Ω . Distortion (THD, IM, TIM) shall not exceed 0.02 percent.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range, 120 Hz to 18 kHz; phase response, 330 Hz to 20 kHz $\pm 45^\circ$; linear peak SPL shall be 111.5 dB with crest factor >16.5 dB measured with M-noise, free field at 4 m referred to 1 m.

Horizontal and vertical coverage shall be hypercardioid with a <10 dB front-to-back ratio up to 500 Hz, 120° at 500 Hz to 4 kHz, and 80° at 4 kHz to 10 kHz $\pm 10^\circ$.

The loudspeaker shall be equipped with a single SwitchCraft EN3 5-pin connector (two pins for DC power, three pins for balanced audio). The audio input shall be electronically balanced with a 10 k Ω impedance and accept a nominal -2.5 dBV (0.75 V rms) input signal.

The approved power source shall be a Meyer Sound 48 V DC multi-channel power supply model. Current draw for the loudspeaker during burst (<1 sec) shall be 2.2 A rms at 48 V. Current inrush during turn-on shall not exceed 7.0 A peak at 48 V.

Loudspeaker components shall be housed in a sealed, extruded aluminum enclosure with a black anodized finish.

Dimensions with grille frame shall be W: 4.04 in (103 mm) x H: 4.04 in (103 mm) x D: 7.95 in (202 mm) D with connector: 10.20 in (259 mm).

Weight shall be 5.2 lb (2.4 kg).

On each side of the enclosure, 3/8-inch – 16 inserts shall accommodate Meyer Sound mounting and rigging options.

The loudspeaker shall be the Meyer Sound MM-4XPD.

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