

# ARCHITECTURAL SPECIFICATIONS

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## MM-4XP Miniature Loudspeaker



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

The loudspeaker shall incorporate a class-D power amplifier with a burst capability of 220 W total (440 W peak) into a nominal load of 4  $\Omega$ . Distortion (THD, IM, TIM) shall not exceed 0.02 percent.

Performance specifications for a typical production unit shall be as follows: operating frequency range shall be 120 Hz–18 kHz; phase response shall be 400 Hz–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; coverage shall be 80° horizontal and 80° vertical at 3–14 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  $\Omega$  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.

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 inch (103 mm) x H: 4.04 inch (103 mm) x D: 5.72 inch (145 mm).

Weight shall be 4.2 lb (1.9 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-4XP.

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