XM44 Electronic Crossover Network

The XM44 Electronic Crossover Network is a very flexible crossover design that provides individual outputs for 2, 3 or 4 frequency bands on the 2- 3- and 4-way models respectively. The crossover frequency of XM44 Electronic Crossover Network can easily be set by replacing frequency modules. Each frequency module has the capacitors and resistors that set the crossover frequency and slope for that channel. Normal slope is 24 dB/oct, 4th order, constant voltage, but modules for first, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th order slopes are also available. When choosing slopes of 24 dB/octave and 48 dB/octave the high-pass and low-pass outputs of the crossover are always in phase with each other (Linkwitz-Riley alignment). Note that the slopes on the low, mid and high channels can be different, so asymmetrical slopes are possible. For example, a 2-way XM44 can easily be set with 6 dB/oct on the high pass and 18 dB/oct on the low pass by choosing appropriate frequency modules. One set of frequency modules is included with the XM44 crossover. Optional plug-in modules are also available for special features like delay, bass boost(Linkwitz transform), baffle step compensation and notch filter. The XM44 is available as a 2-way version, a 3-way version and a 4-way version. The XM44 front panel has 2, 4 or 6 calibrated level controls (for left and right ) for each channel. The level controls are 12 position stepped attenuators with 1 dB steps. This allows for very precise and repeatable setting of the output levels. A sum switch allows the low pass channels to be summed. This is useful when using the XM44 with a common subwoofer. Options for the XM44 include balanced inputs/outputs. Rackmount brackets are also available. Also available an an option are 24 position stepped attenuators instead of the standard 12 position attenuators for level control. These 24 position stepped attenuators are calibrated in 0.5 dB steps and allow very accurate setting of the levels for each output.

SPECIFICATIONS:
Frequency response: DC to 100 Khz, +/- 1 dB
Crossover frequency choice: 20Hz - 20KHz
Insertion gain: +6 dB with level controls at maximum.
Filter slope: 24 dB/octave standard, up to 48dB/octave.
Harmonic distortion at 1 KHz: Less than 0.001%
Signal-to-noise ratio: Better than 110 dB
Input impedance: 30K
Output load capability: 1 KOhm min.
Output impedance: 50 Ohms
Maximum input voltage: 5 V RMS
Power supply requirement: 117VAV/230VAC 1A fuse
Dimensions: 17" x 3.5" x 11"
Shipping weight: approx. 15 pounds (7 Kg)

ORDERING INFORMATION:
XM44-1AA......Electronic crossover, 1-way model (low-pass or high-pass only).
XM44-2AA......Electronic crossover, 2-way model.
XM44-3AA......Electronic crossover,3-way model.
XM44-4AA......Electronic crossover,4-way model.
XM44-FMA......Frequency module , assembled (4 required for each xover frequency point)
XM44-BAL......Balanced option.
XM44-RACK.....Set of rackmount brackets

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XM26 Tube Electronic Crossover Network

Steep 24 dB/octave slope.
Slopes of 6dB/oct, 12dB/oct, 18dB/oct and 24dB/oct available.
Crossover frequencies available: 20 - 5000 Hz.
Subwoofer summing option.
Heavy duty gold plated RCA connectors for input and output.
Fourth-order constant-voltage design (Linkwitz-Riley).
Outputs are always in phase.
No transients during turn-on or turn-off.
Toroidal power transformer.

The XM26 Electronic Crossover Network is a fourth-order constant-voltage crossover design that provides both low-pass and high-pass outputs. The slope of each output is 24 dB/octave and, because of the fourth-order design, the high-pass and low-pass outputs of the crossover are always in phase with each other.
The XM26 uses 4 12AX7 tubes in each of the two channels. It has a solid state regulated power supply for the filament voltage. Power is provided with a heavy duty toroidal power transformer.
The crossover frequency of XM26 Electronic Crossover Network can easily be set by replacing a frequency module. A total of four frequency modules set the crossover frequency for left and right, low and high pass filters. Each frequency module has the capacitors and resistors that set the crossover frequency and slope for that channel. Normal slope is 24 dB/oct, 4th order, constant voltage (Linkwitz-Riley), but modules for first, second and third order slopes are also available.
The XM26 front panel has 4 calibrated level controls, one for each low pass and high pass, for left and right channel. A sum switch allows the low pass channel to be summed. This is useful when using the XM26 with a common subwoofer. Available options include 24 position stepped attenuators instead of the standard potentiometers for level control. These stepped attenuators are calibrated in 0.5 dB steps and allow very accurate setting of the levels for each output. Balanced inputs/outputs are also available as an option.
The XM26 is also available as 1-way instead of 2-way. The 1-way can be used as low-pass only to drive subwoofers or as high-pass only.

SPECIFICATIONS:
Frequency response: 5Hz to 100 Khz, +/- 1 dB
Crossover frequency choice: 20 Hz - 20 KHz
Insertion gain: -1 dB with level controls at maximum.
Filter slope: 24 dB/Octave
Harmonic distortion at 1 KHz: Less than 0.1%
Signal-to-noise ratio: Better than 110 dB
Input impedance: 1M
Output load capability: 10 KOhm min.
Output impedance: 500 Ohms typical
Maximum input voltage: 25 V peak-peak (10 V RMS)
Power supply requirement: 117V AC. 1A
Dimensions: 17" x 3.5" x 11" (wxhxd)
Shipping weight: approx. 15 pounds (7 Kg)

ORDERING INFORMATION:
XM26-AA.......Tube electronic crossover, fully assembled and tested.
XM26-1AA......low pass only tube electronic crossover, fully assembled and tested.
XM26-FMA......Frequency module (4 required), assembled

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