234s/234xs Crossover



Stereo 2-Way/Mono 3-Way/Mono 4-Way Crossover



More sound to your amps and speakers

The secret to making speakers sound great lies with the crossover you use. With the dbx[®] 234s and 234xs Crossovers you'll get great performance, ultra low-noise, rugged reliability and four decades of dbx knowledge and expertise in building the world's finest processors. The 234 uses precision filters to separate the audio signal and direct the correct frequencies to your loudspeaker drivers. By directing only the specific frequency bands to each speaker driver the 234 leaves your amplifiers free to use their full power on the usable signal eliminating distortion and giving your PA system a cleaner and better sound.

The dbx 234 is a dual channel crossover with all the features you would expect from a professional product. They feature Linkwitz-Riley 24dB per octave filters, independent output gain controls for level matching, output phase inversion, 40 Hz low cut filter, and optional mono summing of the low frequency (subwoofer) output. Everything in the design exudes great precision from the solid "click" controls to the high quality ¼" TRS (234s) and XLR (234xs) inputs and outputs.

Features

- TRS differentially balanced ins and outs (234s)
- XLR balanced ins and outs (234xs)
- Mode switches for mono 4-way or stereo 2-way/3-way operation
- Low frequency summed (subwoofer) output
- x10 range switch on both channels
- 40 Hz high pass (low cut) filter both channels
- Phase reverse switch on all outputs
- Individual level controls on all outputs
- 24dB per octave Linkwitz-Riley filters (the professional standard)
- Stereo/Mono status LEDs indicate the selected mode
- b dbx 2 year parts and labor as standard
- CSA NRTL/C approved
- CE compliant

Who uses this product:



ND ATION STUDIO

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Specifications

INPUTS:

Type:

Impedance:

Max Output Level:

Connectors: Type: Impedance: Max Input Level:

OUTPUTS (234s): Connectors:

J. 1/4" TRS Impedance-balanced/unbalanced, RF filtered Balanced 200Ω, unbalanced 100Ω >+21dBu balanced/unbalanced into 2kΩ or greater

1/4" TRS (234s) / Female XLR (234xs) (pin 2 hot)

Electronically balanced/unbalanced, RF filtered

>50k Ω balanced, >25k Ω unbalanced

>+22dBu balanced or unbalanced

OUTPUTS (234xs):

 Connectors:
 XLR

 Type:
 Electronically-balanced/unbalanced, RF filtered

 Impedance:
 Balanced 60Ω, Unbalanced 30Ω

 Max Output Level:
 >+20dBu balanced/unbalanced into 600Ω or greater

CROSSOVER FREQUENCIES:

Stereo Mode:

Low/High: Low/Mid: Mid/High: Mono Mode: Low/Low-Mid: Low-Mid/High-Mid:

High-Mid/High:

45Hz to 960Hz or 450Hz to 9.6kHz (x10 setting) 45Hz to 960Hz or 450Hz to 9.6kHz (x10 setting) 450Hz to 9.6kHz (x10 setting) 45Hz to 960Hz or 450Hz to 9.6kHz (x10 setting) 450 Hz to 9.6 kHz 450Hz to 9.6kHz Linkwitz-Riley, 24 dB/octave, state-variable

FUNCTION SWITCHES:

Filter Type:

Front Panel: Low Cut: Activates 40Hz Butterworth, 12 dB/octave high-pass filter, one switch per channel Phase Invert: Rear Panel: x10: Multiplies crossover frequency range by 10, one switch per channel Mode: LF Sum: Selects stereo/mono and 2/3/4-way operation LF Sum: Selects normal (stereo) or mono-summed low frequency operation

INDICATORS:

Stereo Operation: Mono Operation: Low Cut: x10: Phase Invert:

Green LED Yellow LED Red LED per channel Green LED per channel Red LED per output (3 per channel)

< 3Hz to > 90kHz, +0/-3dB

< 0.004% at +4 dBu, 1kHz

< 0.04% at +20 dBu, 1kHz

<-80dB, 20Hz to 20kHz

Stereo:

> 94dB

> 93dB

> 90dB

>106dB, unweighted, any output

>40dB, typically >55dB @ 1kHz

Ref: +4dBu, 22kHz measurement bandwidth

Mono:

> 94dB

> 94dB

> 92dB

> 88dB

SYSTEM PERFORMANCE: Bandwidth: 20Hz to 20kHz, +0/-0.5dB

Bandwidth: Frequency Response: Dynamic Range: THD+N:

Interchannel Crosstalk: Common Mode Rejection: Signal-to-Noise:

Low Output: Low-Mid Output: Mid Output: High Mid Output: High Output:

POWER SUPPLY:

Power Requirements Operating Voltage Operating Temperature

PHYSICAL:

Dimensions Weight Shipping Weight: 15 Watts 100 VAC 50/60Hz; 120VAC 60Hz; 230 VAC 50/60Hz 32°F to 113°F (0°C to 45°C)

1.75" x 6.9" x 19" (4.5cm x 17.5cm x 48.26cm) Net Weight: 4.0 lbs/1.8 kg 5.8 lbs/2.6 Kg

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

dbx Professional Products

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