223s/223xs Crossover Stereo 2-Way/Mono 3-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[®] 223s and 223xs 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 223 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 223 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 223 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 1/4" TRS (223s) and XLR (223xs) inputs and outputs.

Features

- TRS differentially balanced ins and outs (223s)
- ≻ XLR balanced ins and outs (223xs)
- Mode switch for stereo 2-way or mono 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
- dbx 2 year parts and labor as standard
- CSA NRTL/C approved
- CE compliant

Who uses this product:





STUDIO

dbx Professional Products

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Specifications

INPUTS:

Connectors: Type: Impedance: Max Input Level:

OUTPUTS (223s):

Connectors: Type: Impedance: Max Output Level:

Type:

OUTPUTS (223xs):

XI R Connectors: Electronically-balanced/unbalanced, RF filtered Balanced 60 Ω , Unbalanced 30 Ω Impedance: Max Output Level: >+20dBu balanced/unbalanced into 600Ω or greater

1/4" TRS

CROSSOVER FREQUENCIES:

Stereo Mode: Low/High: Mono Mode:

Low/Mid: Mid/High: Filter Type:

FUNCTION SWITCHES: Front Panel:

Phase Invert:

Low Cut:

x10:

Mode:

LE Sum:

Rear Panel:

45 Hz to 960 Hz or 450 Hz to 9.6 kHz (x10 setting)

filter, one switch per channel

output

per channel

frequency operation

45 Hz to 960 Hz or 450 Hz to 9.6 kHz (x10 setting) 45 Hz to 960 Hz or 450 Hz to 9.6 kHz (x10 setting)

1/4" TRS (223s) / Female XLR (223xs) (pin 2 hot)

Electronically balanced/unbalanced, RF filtered

Impedance-balanced/unbalanced, RF filtered

>+21dBu balanced/unbalanced into $2k\Omega$ or greater

>50k Ω Balanced, >25k Ω unbalanced

>+22dBu balanced or unbalanced

Balanced 200 Ω , unbalanced 100 Ω

Linkwitz-Riley, 24 dB/octave, state-variable

Activates 40 Hz Butterworth, 12 dB/octave high-pass

Multiplies crossover frequency range by 10, one switch

Inverts the phase at the output, one switch per

Selects stereo/mono and 2/3-way operation.

Selects normal (stereo) or mono-summed low

Dimensions Weight

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)

< 0.004% at +4 dBu, 1 kHz

< 0.04% at +20 dBu, 1 kHz

>40dB, typically >55dB @ 1kHz

Ref: +4dBu, 22kHz measurement bandwidth

Mono:

> 94dB

> 93dB

> 91dB

<-80dB, 20Hz to 20kHz

Stereo:

> 94dB

> 91dB

SYSTEM PERFORMANCE:

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

Low Output: Mid Output: High Output:

Operating Voltage Operating Temperature

Shipping Weight:

15 Watts 100 VAC 50/60Hz; 120VAC 60Hz; 230 VAC 50/60 Hz 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: 3.7 lbs/1.7 Kg 5.4 lbs/2.5 Kg

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

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20Hz to 20kHz, +0/-0.5dB < 3Hz to > 90kHz, +0/-3dB >106dB, unweighted, any output

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

POWER SUPPLY:

Power Requirements

PHYSICAL: