MST-103 MIC SPLITTER

FEATURES

Provides 3-Way Split for Low-Z Microphone

Screat for Musicians* Monitoring and Recording

EING Uses Include Press Conferences and Speeches

Connects with Standard Mic Cables

High-Quality Transformer-Isolated Output

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DESCRIPTION

The MST-103 Mic Splitter splits a signal from a low-impedance microphone (or similar source) into three outputs, enabling three microphone preampfillers to be fed from one source. Some applications include musicians' on-stage monitoring, live recording, ENG use at press conferences, and videotaping of lectures, public speeches, etc. It can also be used simply as an isolation transformer for long microphone lines feeding mubalanced inputs, or for any audio signal up to 0 dBV (775 vol). Transformer isolation in such situations minimizes interference from SCR lighting dimmers, radio transmit-ters and 60 Hz AC power wiring. The transformer-isolated feeds retain the advantage of common-mode noise rejection wherein the use of balanced films. The MST-10 is littled with standard 3-pin XLR-type connectors for INPUT, DRECT OUTPUT, and ISOLATED OUTPUTS I and 2, so host prequies only standard fall frequency response, ultra-low distortion, and no fringing or overshoot to degrade transient response. The transformer's triple electrostatic shields and GND/LIFT switches provide isolation and buzz-free operation in virtually any environment.

CONTROLS

> INPUT

Female 3-pin XLR-type connector accepts signal from low-impedance (150 ohm nominal) microphone or similar source. Input impedance (with 1.0 kohm loads on DIRECT and both ISOLATED OUTPUTS): approx. 333 ohm.

> DIRECT OUTPUT:
Male 3-pin XLR-type connector wired in parallel with INPUT provides signal to feed mixer input.

SIGNATED OUTPUTS:

Male 3-pin XLR-type connectors provide floating transformer-isolated low-impedance outputs to feed mixer inputs. Recommended load impedances: 1.0 kcm.

. SQND/LIFTS:
GND position connects pin 1 of INPUT/DIRECT OUTPUT to pin 1 of ISOLATED OUTPUT, LIFT position "floats" ISOLATED OUTPUT, Used to reduce hum and buzz by eliminating ground loops and providing proper grounding for various conditions.

TYPICAL PERFORMANCE
All measurements made with 150 ohm source feeding INPUT and 1.0 kohm loads on ISOLATED OUTPUTS to simulate typical "real world" microphone and mic preamps. 0 dBy ref. = .775 volt.

> FREQUENCY RESPONSE : 20 Hz-20 kHz, +/- .25 dB @ -15 dBv output. -3 dB @ approximately 140 kHz.

> TOTAL HARMONIC DISTORTION : Less than .03% 20 Hz-20 kHz @ -30 dBv output. Less than .1% 30 Hz-20 kHz @ -15 dBv output. Less than .25% 20 Hz-20 kHz @ -15 dBv output.

> PHASE RESPONSE : Less than -13 degrees @ 20 kHz (ref. 1.0 kHz).

> RISE TIME : Less than 2.4 microseconds (2.0 kHz square wave, 10%-90%).

> INPUT IMPEDANCE : Greater than 570 ohm @ 1.0 kHz. Greater than 570 ohm @ 10 kHz. Nominal source impedance is 150 ohm.

> OUTPUT IMPEDANCE : Less than 255 ohm @ 1.0 kHz. Less than 270 ohm @ 10 kHz. Nominal load impedance is 1.0 kohm

> VOLTAGE LOSS: Less than 2.5 dB @ 1.0 kHz.

> MAXIMUM INPUT LEVEL FOR 1% THD : 0 dBv @ 20 Hz. +4 dBv @ 30 Hz. +8 dBv @ 50 Hz.

> DIMENSION : 82mm(W) x 44mm(H) x 130mm(D)

> WEIGHT : 0.45 Kg

NOTE: Phantom power (if required) must be supplied by mixer (or suitable power supply) connected to DIRECT OUTPUT.





EVAINLEEING SPECIFICATIONS

The microphone signal splitting unit shall be suitable for interfacing one (1) balanced or floating low-impedance (150 ohm nomina) microphone or similar signal source to three (3) balanced or floating low-impedance (1.0 kohm nomina) microphone preamplifler inputs. There shall be a 3-pin female XLR-type connector for input from the source. There shall be a parallel or direct output from a 3-pin and a XLR-type connector. There shall be the source inpredance outputs from 3-pin male XLR-type connector. There shall be the source inpredance outputs from 3-pin male XLR-type connector. The secondary electrostate sheld shall be connected to pin 1 of their respective transformer-solated XLR outputs. There shall be a ground-lift switch for each isolated output to allow the secondary shelds to be connected to the primary shelds or isolated as required.



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