

MI-XX Mic input isolator

- Reduces RF and EMI at the mic input connection
- Delivers the sonic character of a 'vintage mic channel'
- Ruler flat frequency response from 10 Hz to 100 kHz
- Plug & play easy to use, no power required

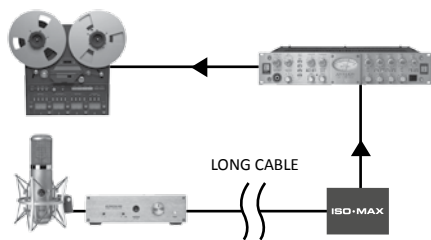


The Iso•Max MI-XX is a single channel mic input isolator designed to eliminate noise in professional balanced audio systems by isolating the preamp or mixer channel from the mic input.

The design begins with a rugged extruded aluminum shell with a slide-in U body that comes standard with gold plated XLR connectors. Inside, a premium Jensen mic input transformer is equipped with dual Faraday internal shields and external mu-metal cans to reduce susceptibility to RF and electro-magnetic induction. Isolating the microphone further reduces common mode noise by as much as 130 dB, optimizing signal to noise. Sonically, the MI-XX delivers a ruler flat response from 5 Hz to 100 kHz with less than 2° phase shift at 20 Hz. And as with all Jensen audio isolators, the MI-XX produces the warm Bessel curve that Jensen is renowned for, yielding a tonal character reminiscent of the very finest vintage studio equipment.

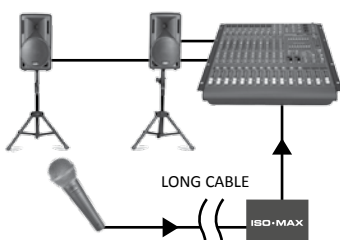
Plug and play easy to use, this passive interface does not require any power to work. This makes the MI-XX ideal sonic enhancer for both dynamic and condenser microphones in the most demanding recording studio environments.

Applications



MI-XX with a studio condenser

Recording and broadcast studios require a noise-free signal transfer while delivering the most accurate sound possible. The Iso•Max MI-XX eliminates ground loops and lowers RF without introducing distortion, phase shift or artifact.

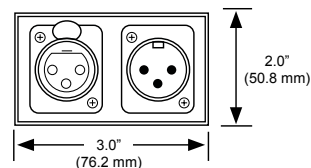


MI-XX with a dynamic mic

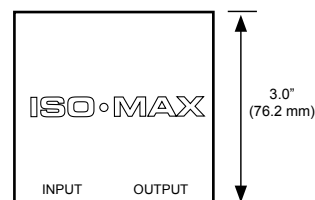
Noise has a nasty habit of finding its way into the most simple circuits. Use the Iso•Max MI-XX to isolate the microphone from the input on your mixing console to eliminate noise in the most troublesome installations.

Dimensions

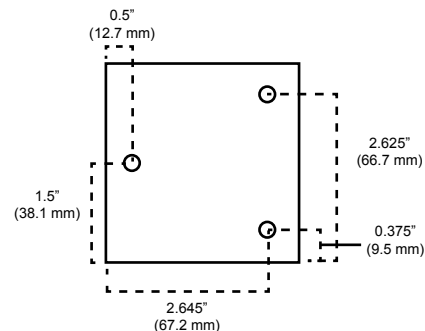
(FRONT)



(TOP)



(BOTTOM)



All Holes = 0.156" (3.96 mm) DIA x 0.3" (7.62 mm) 82 Degree C.S.

Connector options

The MI-XX comes standard with XLR input and output. It is also available special order with the following connector configurations for use with both balanced and unbalanced systems.

MI - XX



XLR-F IN, XLR-M OUT

MI - XB



XLR-F IN, BNC OUT

MI - RR



RCA IN / OUT

MI - RX



RCA IN, XLR-M OUT

MI - XR



XLR-F IN, RCA OUT

MI - PP

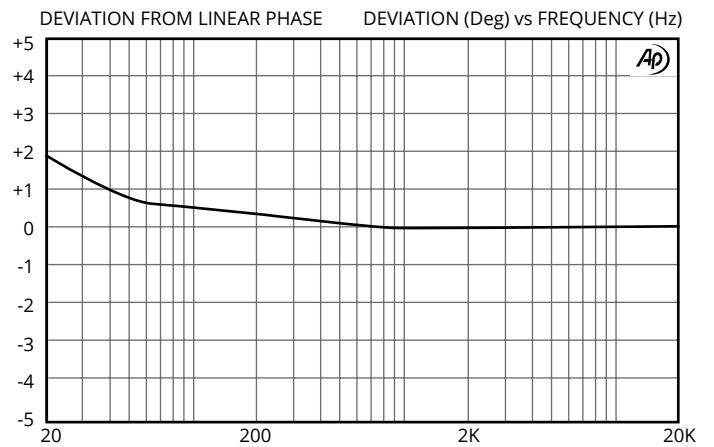
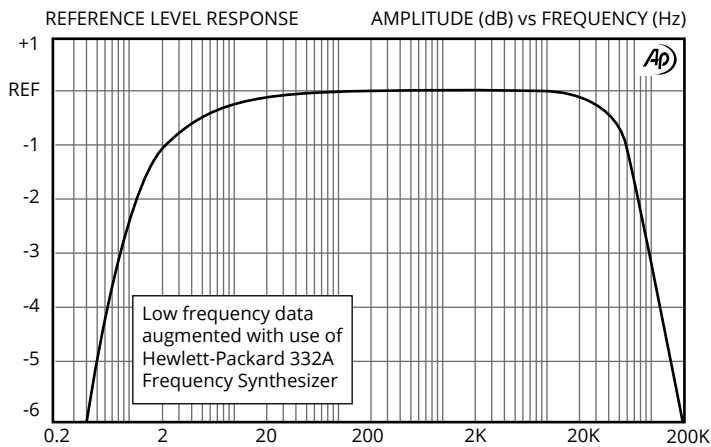
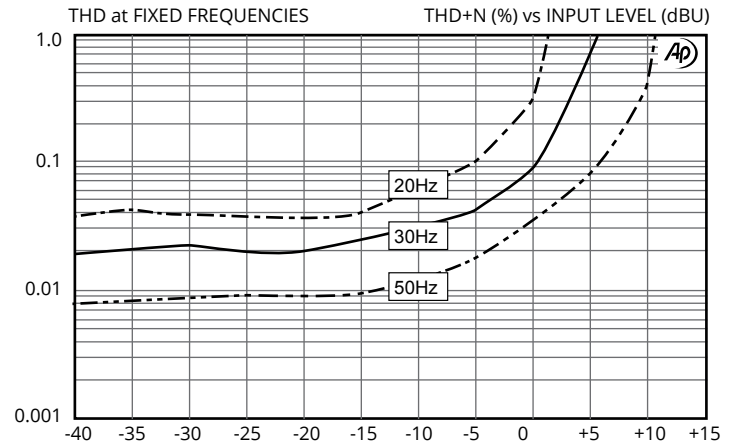
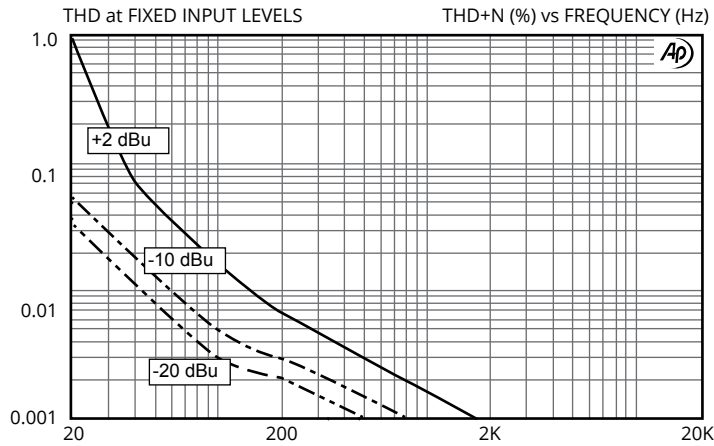


1/4" TRS IN / OUT

MI - XP



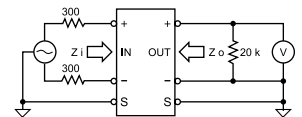
XLR-F IN, 1/4" TRS OUT



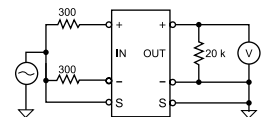
PARAMETER	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM
Input impedance, Zi	1 kHz, -20 dBu, test circuit 1	1.00 kΩ	1.08 kΩ	1.15 kΩ
Insertion loss	1 kHz, -20 dBu, test circuit 1	-0.90 dB	-0.82 dB	-0.70 dB
Magnitude response, ref 1 kHz	20 Hz, -20 dBu, test circuit 1	-0.25 dB	-0.09 dB	±0.0 dB
	20 kHz, -20 dBu, test circuit 1	-0.25 dB	-0.10 dB	+0.1 dB
Deviation from linear phase (DLP)	20 Hz to 20 kHz, -20 dBu, test circuit 1		+1.7/-0°	±3.0°
Distortion (THD)	1 kHz, -20 dBu, test circuit 1		<0.001%	
	20 Hz, -20 dBu, test circuit 1		0.036%	0.15%
Maximum 20 Hz input level	1% THD, test circuit 1	0 dBu	+2.0 dBu	
Common - mode rejection ratio (CMRR) 600 Ω balanced / unbalanced source	60 Hz, test circuit 2 / 3		130 dB / 155 dB	
	3 kHz, test circuit 2 / 3	80 dB / 65 dB	95 dB / 80 dB	
Recommended source impedance	output impedance of device driving ISO-MAX input	0 Ω	150 Ω	500 Ω
Recommended load impedance	input impedance of device loading ISO-MAX output	1.0 kΩ	1.5 kΩ	
Output impedance, Zo	1 kHz, test circuit 1		231 Ω	
Optimal cable length	input		8 m (26')	30 m (100')
	output		30 m (100')	100 m (300')
Temperature range	operation or storage	0°C		70°C
Input to Output Voltage Difference*	any input to any output shield or any shield to case, 60 Hz			24 V RMS 34 V peak

All levels are input unless noted, +4 dBu = 1.23 V RMS

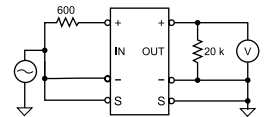
Test Circuit 1:



Test Circuit 2:



Test Circuit 3:



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* IMPORTANT NOTE: THIS PRODUCT IS NOT INTENDED FOR USE IN CIRCUMSTANCES WHERE THE DC OR PEAK AC VOLTAGE BETWEEN INPUT AND OUTPUT CONNECTIONS EXCEEDS 34 VOLTS OR WHERE ITS FAILURE COULD CAUSE INJURY OR DEATH.