

PROTON Range

ADIT Digital Audio Isolator



Overview:

- Eliminate Hum and Noise from Digital Audio Signals
- Protect Equipment from Ground Voltage
- 1kV and 4kV Breakdown Voltages
- Supports all AES3 and MADI Formats
- High Performance and Wide Bandwidth Design
- Passive device
- Compact Standalone or Rack Mountable Unit

Application:

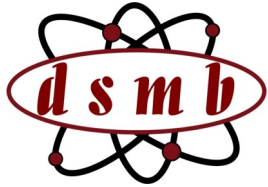
- Noise reduction
- Equipment protection
- OB Truck ground protection

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Description:

The ADIT Digital Audio Isolation Transformer provides a solution to the reduction and elimination of hum and noise that can interfere with digital audio transmission caused by differences in ground potential, especially those above 20 volts, or induced currents in long cable runs.

This common mode noise results in the degradation of the absolute bit timing of high speed digital signals leading to bit errors. These bit errors will at first reduce the quality of the audio and data content within the transmission signal which leads to spurious clicks and noise. However, since digital signals do not degrade gracefully but suffer from a cliff effect, the digital signal can be lost altogether.

Also, these isolators provide crucial protection to audio circuits where ground potential differences exist between equipment. Versions with breakdown voltages of 1kV and 4kV are available.

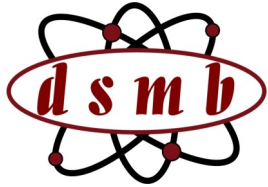
The ADIT Isolation Transformer supports all AES3 and MADI transmission rates. The units may be used standalone, or incorporated in to a 19" rack using the RPIT16 Universal Rack Mounting Unit.

Ordering Information:

ADIT010B	Digital Audio Isolator, 1kV Isolation, Standalone. BNC
ADIT010R	Digital Audio Isolator, 1kV Isolation, Rack Mountable, BNC
ADIT010X	Digital Audio Isolator, 1kV Isolation, Standalone & Rack Mountable, XLR
ADIT040B	Digital Audio Isolator, 4kV Isolation, Standalone. BNC
ADIT040R	Digital Audio Isolator, 4kV Isolation, Rack Mountable, BNC
ADIT040X	Digital Audio Isolator, 4kV Isolation, Standalone & Rack Mountable, XLR
RPIT16	1RU Universal Rack Mounting Unit, 16-Channels for DVIT751R

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DAIT75 Digital Audio Isolator

Specification:

Models:	ADIT010B	ADIT040B	ADIT010R	ADIT040R	ADIT010X	ADIT040X
Channels:	1					
Impedance:	75Ω ±2%, unbalanced				110Ω ±2%, balanced	
Bandwidth:	500kb/s to 500Mb/s					
Noise Rejection:	Better than 60dB Common Mode					
Return Loss:	>20dB					
Insertion Loss:	<1dB					
Isolation Voltage:	1kV	4kV	1kV	4kV	1kV	4kV
Size:	20mm [0.85"] dia. x 55mm [2.2"] including connectors		20mm [0.85"] dia. x 55mm [2.2"] including connectors Fitted with XLR mounting plate		75mm [3"] 30mm [1.2"] 25mm [1"] XLR mounting footprint	
Weight:	30g (1.1oz)				80g (2.8oz)	
Environmental:	-25 to +55°C [-13 to 131°F] 5% - 95% non-condensing EN55103-1, EN55103, FCC part 15 EN60950					

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