

PROTON Range

DVIT Digital Video Isolation Patch Panel



Overview:

- Patch Panel fitted with 4 to 20 independent channels
- Supports all ASI, SD-SDI, HD-SDI, 3G-SDI and 6G-SDI Formats
- Eliminate Hum and Noise from Digital Video Signals
- Protect Equipment from Ground Voltage
- 1kV Breakdown Voltages
- High Performance and Wide Bandwidth Design
- Passive device

Application:

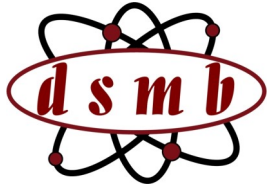
- Noise reduction
- Equipment protection
- Equipment ground isolation
- OB Truck ground protection

DSMB Technology

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Description:

The DVIT Digital Video Isolation Patch Panel provides a solution to the reduction and elimination of hum and noise that can interfere with serial digital video 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 video and data content within the transmission signal but since digital signals do not degrade gracefully but suffer from a cliff effect, the digital signal can be lost altogether. However, the singular most common symptoms of hum in digital signals is intermittent horizontal black streaks. These streaks are often one line in thickness.

Also, these isolators provide crucial protection to video circuits where ground potential differences exist between equipment. The breakdown voltage of each channel is 1kV.

The DVIT Digital Video Isolation Patch Panel supports all 6G-SDI, 3G-SDI, HD-SDI, SD-SDI and ASI transmission rates.

The unit is provided as a 19" 1RU rack mounted unit with 4 to 20 independent channels.

Ordering Information:

DVIT175P-xxBy xx Channel Digital Video Isolation Patch Panel, BNC

DVIT175P-xxHy xx Channel Digital Video Isolation Patch Panel, HD-BNC

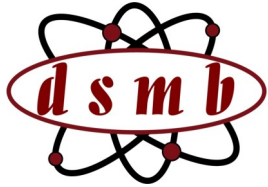
DVIT175P-xxDy xx Channel Digital Video Isolation Patch Panel, DIN 1.0/2.3

xx denotes number of channels: 04, 08, 12, 16, or 20;

Y denotes colour, B=black, R=red, S= silver

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Specification:

Models:	DVIT175P-xxBy	DVIT175P-xxHy	DVIT175P-xxDy
Channels:	4, 8, 12, 16 or 20		
Connector:	BNC	HD-BNC	DIN 1.0/2.3
Impedance:	75Ω ±2%, unbalanced		
Bandwidth:	100Mb/s to 6Gb/s		
Noise Rejection:	Better than 60dB Common Mode		
Return Loss:	>15dB 270MHz to 1.5GHz; >10dB at 3GHz		
Insertion Loss:	Equivalent to 10 metres of Belden 1694A		
Isolation Voltage:	1kV		
Size:	19" 1RU Rack Mounting Panel 20mm[0.8"] deep, excluding connectors		
Weight:	1kg (2.2lb) maximum (20-channel BNC unit)		
Environmental:	-25 to +55°C [-13 to 131°F] 5% - 95% non-condensing EN55103-1, EN55103, FCC part 15 EN60950		

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