

Model INT-9088

Wideband Video Intermediate Frequency Matrix Switch

FEATURES:

- Fully buffered 8 x 8 non-blocking switch
- 50 and 75 Ohm models available
- Frequency range DC to 350 MHz
- Ideal for 70, 140 and 160 MHz IF signals
- Gain flatness < +/-0.5dB any 50MHz BW
- Group delay < 2.5ns
- Channel to channel isolation > 55dB to 200 MHz and >45 dB to 350 MHz
- Reliable and rugged solid state design
- Remote control via V.24 (RS-232C)
- 10/100Base-T Ethernet SNMP optional
- Front Panel Control optional
- Redundant AC and DC power options available
- Front or rear panel connector models available
- Small size (1U), low power, low cost

APPLICATIONS:

- Satellite ground station switching and routing of microwave receiver IF outputs to demodulators
- Broadcast/HDTV Quality component video switching and routing
- Video processing equipment Automatic Test Equipment (ATE)
- Signals analysis laboratory

GENERAL DESCRIPTION:

The INT-9088 is a fully non-blocking 8 x 8 matrix switch for wideband video intermediate frequency IF signals. It offers superior differential gain flatness, exceptionally low differential group delay and it is ideal for the switching of demanding and complex modulated waveform signals such as 256 QAM. Typical applications include IF output of satellite or terrestrial microwave receivers and broadcast quality High-Definition TV signals (HDTV, NTSC, PAL, SECAM and RGB). By combining exceptional performance, small size (1U) and low cost the INT-9088 provides a unique switching solution for small scale installations.

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Wideband Video Intermediate Frequency Matrix Switch



SPECIFICATIONS:

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| Frequency | DC – 350 MHz |
| Impedance | 50 or 75 Ohms (optional) |
| Switch Matrix Size | 8 inputs, 8 outputs, fully non-blocking |
| Signal Connector Type | BNC |
| Amplitude (gain) Flatness | < +/-0.375dB across any 50MHz BW |
| Insertion Loss | -0.015 dB per MHz DC to 200 MHz -0.030 dB per MHz 200 MHz to 300 MHz -0.045 dB per MHz 300 MHz to 350 MHz |
| Group Delay | < +/-2.5ns |
| Output Channel to Channel Isolation | > 55 dB DC to 200 MHz > 45 dB 200 MHz to 350 MHz |
| Return Loss | > 10 dB |
| Maximum Operating Input Signal Level | 0 dBm |
| 1dB Compression Point | +9 dBm at 70 MHz, +4 dBm at 140 MHz |
| Remote Control | V.24 (RS-232C) 19.2 kbps serial 10/100Base-T Ethernet SNMP (optional) |
| Front Panel Control | VFD Display & Switches (optional) |
| Power Consumption | 4W (typical) |
| Mechanical | 1U high (1.75") RETMA standard 16.8" wide, 17.0" deep, 1.75" high |
| Weight | 7 pounds |
| Operating Temperature | 0 – 50C non-condensing |
| Power Supply | 120/240 VAC 50/60 Hz auto-ranging 24, -48 VDC (optional) Dual redundant supplies (optional) |

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