Model 3000-09  

16(1x30) 1-WIRE MULTIPLEXER

Product Description

The 3000-09 provides 16(1x30) Switch Multiplexers. This module provides high Bandwidth and high Density as well as Flexibility. Model 3000-09 has a separate ground plane beneath the shielded Relays providing both high Bandwidth and minimal crosstalk. It is ideal for use with a DMM as a multi-channel scanner card. The 3000-09 has been designed with several exceptional features that make it stand out from competitive products.

- **6U Form Factor** – the larger 6U form factor will accommodate 3-4 times the number of relays as 3U PXI products eliminating the need to build switching structures across boards decreasing Bandwidth.

- **Coaxially Shielded Reed Relays** –
  - Shielding allows a characteristic 50Ω impedance to be maintained, while dramatically increasing Noise Immunity.
  - Reed Relays are rated for >1Billion cycles vs 1M for standard Relays.
  - These relays use Ruthenium at the contact area in a hermetically sealed environment, making them ideal in “Dry” or “low Voltage” switching applications. Unlike, ordinary gold plated non-sealed relays which depend on switching arcs to keep contacts clean and will build up resistance in Dry switching applications.

- **Factory Configurable** – The module is available in several different configurations.

- **Airborn Connectors** – Selected for improved Bandwidth specifications. Requires cables to be wired discretely.

Capabilities

- Reconfigurable
- Voltage Max = 200VDC, 200VACpk
- Current Max = 0.5A
- Power = 10 Watts
- Bandwidth = 40MHz
- For other Densities see 3000-03 = 4(1x30)  
  3000-08 = 8(1x30)

Recommended Uses

- **System Test and Burn-in Switching**
  - Low Crosstalk High Bandwidth and large Channel Counts makes this module ideal for Small Signal applications.

Low Cost GT-8300A 3U chassis with LAN and IEEE-488 Control
Model 3000-09

16(1X30) 1-WIRE MULTIPLEXER

Specifications

Electrical
- Voltage Max = 200VDC, 200VAC
- Current Max = 0.5A (switched)
- Power Max = 10W
- Path Impedance 0.53Ω
- Bandwidth = 40MHz
- Crosstalk <-50dB at 10MHz
- Thermal EMF = 60uV

Environmental Temperature
- Operating 0° to 50°C
- Storage -40° to 75°C

Humidity (non-condensing)
- Operating 10 to 90%
- Storage 0 to 95%

Mechanical
- "C" size VXI

All ASCOR cards have built-in circuitry to verify both the control signal from the programming register, as well as verifying the relay coil is intact.

All Switching modules feature built-in memory to maintain the service record of the unit with time stamping.

All Modules carry a full 3 year Warranty

Ordering Information

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<th>Model #</th>
<th>Description</th>
<th>Manufacturer #</th>
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<tr>
<td>3000-09</td>
<td>16(1x30) 1-wire Multiplexer, 40MHz</td>
<td>90400230</td>
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<tr>
<td></td>
<td>Set of Mating connectors for one Module</td>
<td>89800050-002</td>
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