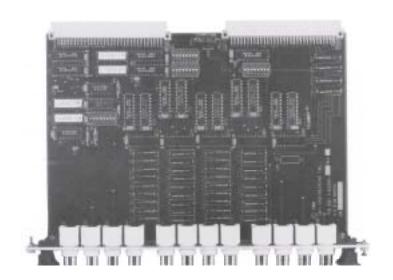
Racal Instruments

http://www.racalinstruments.com

PRODUCT INFORMATION

Switching Matrix For the VMEbus Model HF4x8

The HF4x8 is a VMEbus compatible 100 MHz switching matrix with comprehensive Built-In-Test Equipment (BITE) capabilities. Multiple modules may be joined in tree fashion via the top edge BNC connectors to create 8x8, 8x16, 4x16 or 4x32 configurations (4 signal highways maximum), maintaining the 100 MHz bandwidth. Modules may be connected via the P2 connector to create 8x16, 8x24, 8x32, 8x40, etc. configurations (4 signal highways maximum at P2 with stub disconnect relays), with some decrease in bandwidth. See Application Notes for details.



SPECIFICATIONS

Characteristic Impedance

50 Ω

Bandwidth

100 MHz

Isolation

>40 db @100 MHz >60 db @ 10 MHz

Insertion Loss

<1.0 db @ 100 MHz <0.2 db @ 10 MHz

Signal Connections

BNC

Power

+5 V @ 1.20 A typical +12 V @ .12 A typical

Relay Life Expectancy

Rated Load Operations: >3x10⁸Dry Circuit Operations: >1 x 10⁸

BITE

Read-back capability of all relay driver states provides system check of entire board, except for relay contacts.

Configuration

True 4x8 matrix with 4 highways also switched to P2

Relay Contacts

Max. Current, Resistive Load: 0.25 A
Max. Voltage
 DC Resistive Load: 50 V
 AC Resistive Load: 120 V
Max. VA, Resistive Load: 4 VA
Typical Operating Time
(including bounce): 1 msec
Max. Contact Resistance
Initial: 0.2Ω End of Life: 1.0Ω

VMEbus Compliance

Complies with ANSI/IEEE Std. 1014-1987 A32/A24/A16:D16 DTB Slave No SYSFAIL No Interrupts IACKIN tied to IACKOUT BRX tied to BGX Form Factor: Size B

Applications

Switching matrix for ATE
Signal switching for data
acquisition
Signal switching for simulation
Systems signal control in a lab or
development environment

Ordering Information

Part Number: 11026000-001 Application Notes: 11026005



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