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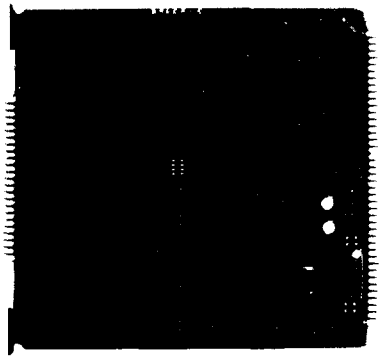
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53A-331 REED RELAY SCANNER CARD

- **10 separately controllable 4-wire channels**
- **Random channel selection at rates greater than 150 channels per second**
- **Use as either a multiplexer or demultiplexer**
- **At least 10^7 operations per channel at full rated load**



ORDERING INFORMATION

53A-331 - *Reed Relay Scanner Card*
OPT 20 - Backplane Output Isolation Switch
53A-721 - Analog Cable, or
53A-780 - Hooded Connector

The Reed Relay Scanner Card provides 10 four-wire channels of analog signal acquisition, with a switching rate of up to one-hundred-fifty channels per second. A channel can be randomly selected (closed) by transmitting ASCII characters from the system controller (calculator or computer), to the Tektronix/CDS System.

The Reed Relay Scanner Cards can be plugged into a card cage to provide scanning of one-hundred channels.

BITE

Ten LEDs provide Built-In-Test Equipment ("BITE") for the Scanner Card. An individual LED will be lit when its corresponding channel is closed.

Specifications

Configuration:
Ten each dry reed relays, 4-pole, form A. Common output bus, 4 lines.

Contacts:
Ten Watts maximum resistive (200V dc or 0.5 Ampere maximum switching).
Initial Contact Resistance, <100 milliohms.
Contact Resistance at End of Reed Life, <1 Ohm.

Reed Life:
At least 10^7 operations per channel at rate load of 10 Watts.

Duty:
Continuous.

Scanning Rate:
Random channel selection at greater than 150 channels per second maximum.

Signal Path Specifications:
These specifications include the effects of the card cage backplane and are valid at the backplane analog output connector.
Differential Thermal Offset, less than 15 microvolts.
Single-line Thermal Offset, less than 50 microvolts.
Initial Signal Path Resistance, greater than 500 milliohms.
Signal Path Resistance at End of Reed Life, less than 1.4 Ohms.
Insulation Resistance, greater than 10 gigohms between all channels and chassis ground.

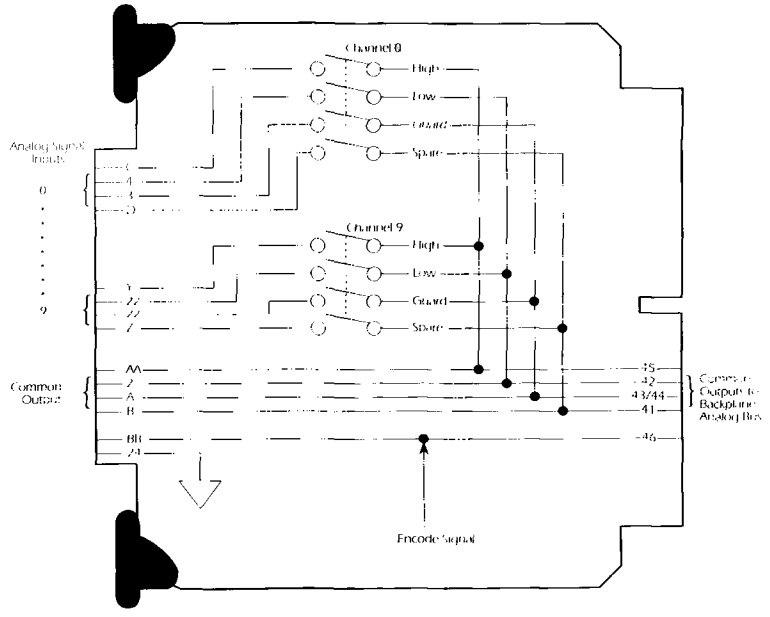
Frequency	Crosstalk (max.)*
DC to 1 KHz	–90 dB
1 KHz to 10 KHz	–75 dB
10 KHz to 100 KHz	–52 dB
100 KHz to 1 MHz	–60 dB

*Measurement made at Scanner common output with closed channel terminated in 600 Ohms and signal applied to unselected channels.

Programmed By:
ASCII Characters.

Recommended Cables:
53A-721.
53A-780.

Available Option:
OPT 20, backplane output isolation switch.



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