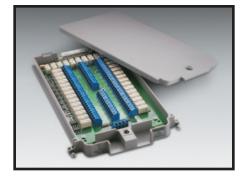
7708

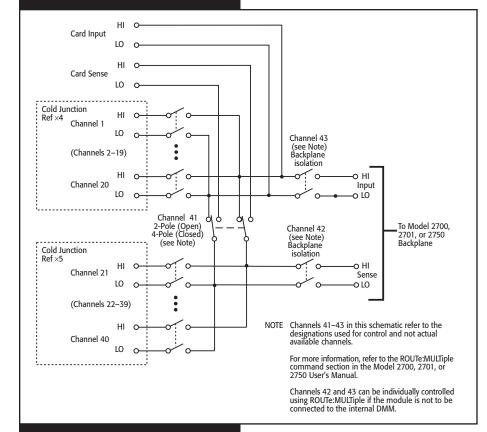
- 40 differential channels for general-purpose measurements
- Two- or four-wire measurements
- 300V, 1A capacity for voltage • channels; 60W, 125VA
- **Oversize screw terminal** connection blocks are standard for easier connection
- Relay closures stored in onboard memory

Ordering Information

7708 40-channel Differential **Multiplexer Module** with Automatic CJC and Screw Terminals



The Model 7708 plug-in module offers 40 channels of 2-pole or 20 channels of 4-pole multiplexer switching that can be configured as two independent banks of multiplexers. The built-in CJC sensors automatically linearize thermocouples, making the Model 7708 ideal for RTD, thermistor, and thermocouple temperature applications. It is also well suited for mixed-signal measurement applications that require multi-point monitoring, such as environmental stress screening.



CAPABILITIES

CHANNELS 1-40: Multiplex one of 40 2-pole or one of 20 4-pole signals into DMM.

INPUTS

40-channel Differential Multiplexer Module

with Automatic CJC and Screw Terminals

- MAXIMUM SIGNAL LEVEL:
 - Channels (1-40): 300V DC or rms, 1A switched, 60W, 125VA maximum
- CONTACT LIFE (typ): >105 operations at max. signal level. >108 operations no load1.
- Open thermocouple detector on during thermocouple measurements Minimum signal level 10mV, 10µA.
- CONTACT RESISTANCE: $<1\Omega$ at end of contact life. CONTACT POTENTIAL:
- <±500nV typical per contact, 1µV max.
- <±500nV typical per contact pair, 1µV max.
- OFFSET CURRENT: <100pA.

CONNECTOR TYPE: Screw terminal, #20 AWG wire size. ISOLATION BETWEEN ANY TWO TERMINALS: $>10^{10}\Omega$. <100pF

ISOLATION BETWEEN ANY TERMINAL AND EARTH: >109Ω. <200pF.

CROSS TALK (10MHz, 50Q Load): <-40dB.

INSERTION LOSS (50Ω Source, 50Ω Load): <0.1dB below 1MHz. <3dB below 2MHz.

COMMON MODE VOLTAGE: 300V between any terminal and chassis.

- TEMPERATURE ACCURACY USING INTERNAL CJC:
- 1.0°C (see mainframe specification for details).

GENERAL

40 CHANNELS: 40 channels of 2-pole relay input. All channels configurable to 4-pole.

RELAY TYPE: Latching electromechanical.

ACTUATION TIME: <3ms.

FIRMWARE: Specified for Model 2700 rev. B02, 2701 rev. A01, and 2750 rev. A01 or higher.

ENVIRONMENTAL

OPERATING ENVIRONMENT: Specified for 0°C to 50°C. Specified to 80% R.H. at 35°C. STORAGE ENVIRONMENT: -25°C to 65°C. WEIGHT: 0.52kg (1.16 lb).

ACCESSORIES AVAILABLE

7401

Type K Thermocouple Wire, 30.5m (100 ft).

SERVICES AVAILABLE

7708-3Y-EW 1-year factory warranty extended to 3 years from date of shipment

1.888.KEITHLEY (U.S. only) www.keithley.com

