

**Aumictech**

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Data Sheet

August 6, 2026

KEITHLEY

Keithley 7708 Differential Multiplexer Module, 40 Channels

Keithley 7708 Differential Multiplexer Module, 40 Channels The Keithley 7708 is a 40-channel differential multiplexer module with automatic CJC and oversized screw terminals for Integra Series DAQ mainframes. Latching electromechanical relays; 40 channels of 2-pole or 20 channels of 4-pole (two banks of 20). Built-in CJC sensors linearize thermocouples. Ideal for RTD, thermistor, thermocouple, and mixed-signal multipoint monitoring / ESS. Temperature multiplexing; environmental stress screening; general-purpose multi-channel voltage/resistance into DMM. The Keithley 7708 is a 40-channel differential multiplexer module with automatic CJC and oversized screw terminals for Integra Series DAQ mainframes. Latching electromechanical relays; 40 channels of 2-pole or 20 channels of 4-pole (two banks of 20). Built-in CJC sensors linearize thermocouples. Ideal for RTD, thermistor, thermocouple, and mixed-signal multipoint monitoring / ESS. Temperature multiplexing; environmental stress screening; general-purpose multi-channel voltage/resistance into DMM.

No photo

MODEL

Keithley 7708

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

7708

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- 40 channels 2-pole or 20 channels 4-pole; two independent banks
- Automatic CJC (no external CJC accessories required)
- Latching electromechanical relays; actuation <3 ms
- Signal: 300 V DC or rms, 1 A switched; 60 W / 125 VA max
- Contact life: $>10^5$ at max signal; $>10^8$ no load (typical)
- Oversized screw terminal blocks
- Relay closure count stored in onboard memory
- 4-wire pairing: channels 1–20 with 21–40
- Ratio and channel-average capabilities with paired channels

7708 Characteristics / Specifications

PARAMETER	VALUE
Model	7708
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Differential Multiplexer Module
Family	Integra Series Plug-In Modules
Alias	7708 Switching 40×2-pole / 20×4-pole; 300 V / 1 A; latching EM relays; auto CJC Operational Notes Prefer Keithley 7708 datasheet / PA-744. Do not confuse catalog hits for Aeroflex DF-7708.
Signal	300 V DC or rms, 1 A switched; 60 W / 125 VA max
Contact life	>10 ⁵ at max signal; >10 ⁸ no load (typical)
4-wire pairing	channels 1–20 with 21–40

7708 Specifications

PARAMETER	VALUE
Applications	Temperature multiplexing; environmental stress screening; general-purpose multi-channel voltage/resistance into DMM.
Key Features	- 40 channels 2-pole or 20 channels 4-pole; two independent banks
Technical Specifications	Model: 7708
Switching	40×2-pole / 20×4-pole; 300 V / 1 A; latching EM relays; auto CJC
Operational Notes	Prefer Keithley 7708 datasheet / PA-744. Do not confuse catalog hits for Aeroflex DF-7708.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Model	7708
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Differential Multiplexer Module
Family	Integra Series Plug-In Modules
Alias	7708 Switching 40×2-pole / 20×4-pole; 300 V / 1 A; latching EM relays; auto CJC Operational Notes Prefer Keithley 7708 datasheet / PA-744. Do not confuse catalog hits for Aeroflex DF-7708.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

environmental stress screening; general-purpose multi-channel voltage/resistance into DMM.

Key Features

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Technical Specifications

Technical Specifications

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Model	7708
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Differential Multiplexer Module
Family	Integra Series Plug-In Modules
Alias	7708

Switching

40x2-pole / 20x4-pole; 300 V / 1 A; latching EM relays; auto CJC

Operational Notes

Prefer Keithley 7708 datasheet / PA-744. Do not confuse catalog hits for Aeroflex DF-7708.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.