

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

KEITHLEY

Keithley 7707

The 7707 provides a Keithley switch/measure module designed for 2700-, 2701-, 2750-, and DAQ6510-series mainframes, combining a 10-channel two-pole or 5-channel four-pole analog multiplexer with 32 digital I/O lines on ports 11 through 14. Automated switching of multiple analog signals to a single DMM or source; four-wire resistance and low-thermal scanning; digital control and status monitoring in production test fixtures; mixed-signal data acquisition with relay-based signal routing; expansion of Keithley 2700/2701/2750/DAQ6510 scan systems. Relay Speed: Less than 3 ms actuation class Compatible Mainframes: 2700, 2701, 2750, DAQ6510 Install in a supported Keithley mainframe slot and configure scan lists for intended 2-pole or 4-pole topology. Observe analog switch ratings for voltage, current, and VA limits. Allow relay settling time after channel changes before sensitive measurements. Catalog title "Multiplexer Digital Module" covers both analog mux and digital I/O functions—document and wire both DB-25 analog and DB-50 digital interfaces as required. Do not exceed 300 V / 1 A / 125 VA per channel. Alias 7707.

No photo

MODEL

Keithley 7707

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

7707

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

- 10-channel two-pole or 5-channel four-pole analog multiplexer • 32 digital I/O lines (ports 11–14) • Analog switching: 300 V, 1 A, 60 W, 125 VA class • Latching electromechanical relays, less than 3 ms actuation class • DB-25 analog connector; DB-50 digital connector • Compatible with 2700, 2701, 2750, and DAQ6510 mainframes

7707 Characteristics / Specifications

PARAMETER	VALUE
Model	7707
Manufacturer	Keithley (Tektronix)
Instrument Type	Multiplexer and Digital I/O Module
Analog Topology	10-ch 2-pole or 5-ch 4-pole multiplexer
Digital I/O	32 channels (ports 11–14)
Analog Switch Rating	300 V, 1 A, 60 W, 125 VA
Relay Type	Latching electromechanical
Relay Speed	Less than 3 ms actuation class
Analog Connector	DB-25
Digital Connector	DB-50
Compatible Mainframes	2700, 2701, 2750, DAQ6510
Alias	7707 Standard Operating Conditions Install in asupported Keithley mainframe slot and configure scan lists for intended 2-pole or 4-pole topology. Observe analog switch ratings for voltage, current, and VA limits. Allow relay settling time after channel changes before sensitive measurements.
Analog switching	300 V, 1 A, 60 W, 125 VA class

7707 Specifications

PARAMETER	VALUE
Keithley 7707 Multiplexer Digital Module	Overview
Key Features	- 10-channel two-pole or 5-channel four-pole analog multiplexer
Technical Specifications	Model: 7707

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.

Specifications	
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Relay Speed	Less than 3 ms actuation class
Analog Connector	DB-25
Digital Connector	DB-50
Compatible Mainframes	2700, 2701, 2750, DAQ6510
Alias	7707
Standard Operating Conditions	
Install in supported Keithley mainframe slot and configure scan lists for intended 2-pole or 4-pole topology. Observe analog switch ratings for voltage, current, and VA limits. Allow relay settling time after channel changes before sensitive measurements.	
Operational Notes	
Catalog title "Multiplexer Digital Module" covers both analog mux and digital I/O functions—document and wire both DB-25 analog and DB-50 digital interfaces as required. Do not exceed 300 V / 1 A / 125 VA per channel. Alias 7707.	

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

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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.