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Data Sheet

August 13, 2026

KEITHLEY

Keithley 7035 9-Bank, 1 x 4 Multiplexer Card

Keithley 7035 9 Bank 1x4 Multiplexer Card The Keithley 7035 is a 9-bank, 1x4 two-pole multiplexer card for Model 7001 and 7002 switch mainframes. Each bank is an independent 1x4 Form A (Hi, Lo) mux; external wiring can combine banks into larger trees. Maximum signal is 60 V DC, 30 V rms, 42 V peak between any two inputs or chassis, 1 A switched, 30 VA resistive. A 96-pin male DIN connector (7011-KIT-R mating kit included) mass-terminates the card. Actuation is 3 ms with less than 1 ohm per conductor and less than 100 pA offset. The Keithley 7035 is a 9-bank, 1x4 two-pole multiplexer card for Model 7001 and 7002 switch mainframes. Each bank is an independent 1x4 Form A (Hi, Lo) mux; external wiring can combine banks into larger trees. Maximum signal is 60 V DC, 30 V rms, 42 V peak between any two inputs or chassis, 1 A switched, 30 VA resistive. A 96-pin male DIN connector (7011-KIT-R mating kit included) mass-terminates the card. Actuation is 3 ms with less than 1 ohm per conductor and less than 100 pA offset. Telecom and portable-device production multiplex; nine independent 4-channel 2-pole banks; custom mux trees by combining banks; 7001/7002 ATE signal routing below 10 MHz insertion-loss class.



MODEL

Keithley 7035

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7035

LISTING

<https://aumictechlabs.com/products/7035-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7035 is a 9-bank, 1 × 4 multiplexer card that routes signals across nine independent banks, each with 2-pole Form A (Hi, Lo) switching. Designed for automated testing, data

acquisition, and process monitoring, this card delivers flexible signal management with banks that can be externally combined for complex switching configurations. Contact resistance below 1Ω per conductor and contact potential below $1\mu\text{V}$ per channel contact pair ensure signal integrity in precision measurement systems.

Technical Specifications

Multiplex Architecture Nine independent 1×4 multiplexer banks 2-pole Form A switching per bank External bank combination supported for expanded configurations

Electrical Performance Maximum signal level: 60 VDC, 30 Vrms, 42 V peak (between any two inputs or chassis) Switched current: 1 A Resistive load: 30 VA Contact resistance: $<1\Omega$ per conductor Contact potential: $<1\mu\text{V}$ per channel contact pair Offset current: $10^9\Omega$, $10^9\Omega$, $10^9\Omega$, $10^9\Omega$, $<200\text{ pF}$ Crosstalk (1 MHz, 50Ω load): $\leftarrow 40\text{ dB}$ (bank and channel) Signal Integrity Insertion loss ($<0.25\text{ dB}$ below 1 MHz, $<3\text{ dB}$ below 10 MHz) in 50Ω source/load configuration Relay drive current: 16 mA per relay; 59 mA maximum per channel (11 channels simultaneous) Contact Life Cold switching: 10^8 closures At maximum signal levels: 10^5 closures

Environmental & Physical Operating temperature: 0°C to 50°C Storage temperature: -25°C to 65°C Connector: 96-pin male DIN

Key Features Low contact resistance and minimal contact potential for precision measurement Excellent isolation across all switching planes Fast relay actuation supports high-speed switching applications Modular bank architecture enables custom signal routing configurations

Typical Applications Automated test systems requiring multi-channel signal routing Data acquisition platforms with flexible channel selection Process monitoring and control systems

Compatibility & Integration Mates with Model 7011-KIT-R connector kit. Compatible with Keithley mass-terminated cable assemblies including the 7035-MTC-2.

Features & description

From manufacturer datasheet

Features

- Nine independent 1×4 banks, not a single 1×36 tree unless wired externally
- 2-pole FormA Hi/Lo on every channel
- 96-pin DIN mass termination with 7011-KIT-R
- 10 MHz-class analog path (insertion loss specified to 10 MHz)
- Companion 7038 is a 2 GHz 75 ohm RF mux, not this card

7035 Characteristics / Specifications

PARAMETER	VALUE
Model	7035
Manufacturer	Keithley Instruments
Instrument Type	9 bank 1×4 two pole multiplexer card
Alias	7035; Keithley 7035
Host Mainframes	Keithley 7001 and 7002
Mux Configuration	9 independent 1×4 2 pole multiplex banks
Contact Configuration	2 pole Form A (Hi, Lo)
Connector Type	96 pin male DIN
Mating Connector	7011-KIT-R 96 pin female kit included
Max Voltage DC	60 V DC between any two inputs or chassis
Max Voltage RMS	30 V rms
Max Voltage Peak	42 V peak
Max Switched Current	1 A
Max VA	30 VA resistive load
Contact Life Cold	1e8 closures
Contact Life Max Signal	1e5 closures
Channel Resistance	less than 1 ohm per conductor
Contact Potential Pair	less than 1 uV per channel contact pair (manual); less than 2 uV on some datasheet printings
Contact Potential Single	less than 3 uV typical per single contact
Offset Current	less than 100 pA
Actuation Time	3 ms
Isolation Bank	greater than 1e9 ohm, less than 25 pF
Isolation Channel	greater than 1e9 ohm, less than 50 pF
Isolation Differential	greater than 1e9 ohm, less than 100 pF
Isolation Common Mode	greater than 1e9 ohm, less than 200 pF

PARAMETER	VALUE
Crosstalk Bank	less than minus 40 dB at 1 MHz, 50 ohm load
Crosstalk Channel	less than minus 40 dB at 1 MHz, 50 ohm load
Insertion Loss Low	less than 0.25 dB below 1 MHz (50 ohm source and load)
Insertion Loss High	less than 3 dB below 10 MHz
Relay Drive Current	16 mA per relay
Operating Temperature	0 C to 50 C, up to 35 C at less than 80 percent RH
Storage Temperature	minus 25 C to 65 C
EMC	EU Directive 89/336/EEC, EN 55011, EN 50082-1, EN 61000-3-2, EN 61000-3-3, FCC Part 15 ClassB Safety: EU Directive 73/23/EEC, EN 61010-1, UL 3111-1
Related RF Card	7038 three 1×4 2 GHz 75 ohm multiplexer

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 25 C to 65 C
Operating temperature	0 C to 50 C, up to 35 C at less than 80 percent RH
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EMC	EU Directive 89/336/EEC, EN 55011, EN 50082-1, EN 61000-3-2, EN 61000-3-3, FCC Part 15 ClassBSafety: EU Directive 73/23/EEC, EN 61010-1, UL 3111-1
Related RF Card	7038 three 1×4 2 GHz 75 ohm multiplexer Notes Specs from Keithley Model 7035 instruction manual specification page and 7035/7038 datasheet. Contact-potential pair is listed as less than 1 uV in the manual and less than 2 uV on one datasheet printing; use the certificate/faceplate if the two disagree. Notadigital I/O card (see 7037-D).

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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Related RF Card	7038 three 1x4 2 GHz 75 ohm multiplexer

Notes

Specs from Keithley Model 7035 instruction manual specification page and 7035/7038 datasheet. Contact-potential pair is listed as less than 1 uV in the manual and less than 2 uV on one datasheet printing; use the certificate/faceplate if the two disagree. Not a digital I/O card (see 7037-D).

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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.