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Data Sheet

August 13, 2026

KEITHLEY

Keithley 7011-S Quad 1x10 Mux Switch Card

Keithley Modular Instrument Chassis. Current: 16 mA per relay, Voltage: 175 V peak (any pin to chassis), Current: <.



MODEL

Keithley 7011-S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7011-S

LISTING

<https://aumictechlabs.com/products/7011-s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7011-S is a Quad 1×10 Multiplexer Switch Card engineered for integration with Keithley 7001 and 7002 Switch Mainframes. It delivers flexible signal routing through four independent 1×10 2-pole multiplexer banks, configurable as 2-, 4-, or 8-pole units. Banks combine for expanded topologies: dual 1×20, 1×10 with 1×30, single 1×40, or dual 7011-S cards for a 1×80 multiplexer via backplane interconnection. Technical Specifications Multiplexer Architecture Four independent 1×10 2-pole banks (Form A: Hi, Lo contacts) 40 total 2-pole channels per card Configurable pole widths: 2, 4, or 8 poles per bank Bank isolation via jumper selection Actuation time: 3 ms Relay drive current: 16 mA per relay Electrical Performance DC signals: 110 V DC, 1 A switched, 30 VA (resistive load) AC signals: 125 V rms / 175 V peak, 1 A switched, 60 VA (resistive load) Common mode voltage: 175 V peak (any pin to chassis) Contact potential: <500 nV per channel contact pair Offset current: <100 pA Channel resistance: 10⁹ Ω, 10⁹ Ω, 10⁹ Ω, 10⁹ Ω, 10⁹ Ω, <600 pF Crosstalk @ 1 MHz, 50 Ω load: ←40 dB (bank and channel) Insertion loss (50 Ω source/load): <0.1 dB below 1 MHz, <3 dB below 2 MHz Contact Reliability Cold switching life: 10⁸ closures Life at maximum signal levels: 10⁵ closures Key Features Screw

terminal interface (#16 AWG maximum, 0.092 inch O.D.) Supports #22 AWG typical (88 conductors per card max) Expandable via 7001/7002 backplane architecture Bank jumper configuration for flexible isolation Compatibility & Integration Designed exclusively for Keithley 7001 and 7002 Switch Mainframes with backplane connectivity for multi-card expansion.

7011S Characteristics / Specifications

PARAMETER	VALUE
Model	7011-S
Manufacturer	Keithley Instruments
Instrument Type	Quad 1×10 multiplexer card
Alias	7011S; 7011-S
Host Mainframes	7001 and 7002
Channel Count	40
Mux Configuration	four independent 1×10 two pole banks or two 1×10 four pole banks
Contact Configuration	2 pole Form A (Hi, Lo)
Connector	screw terminal
Maximum DC Signal	110 V DC between any two pins, 1 A switched, 30 VA resistive
Maximum AC Signal	125 V RMS or 175 V AC peak, 1 A switched, 60 VA resistive
Common Mode Voltage	175 V peak any pin to chassis
Contact Life Cold	1E8 closures
Contact Life Max Signal	1E5 closures
Channel Resistance	less than 1 ohm per conductor
Contact Potential Pair	less than 500 nV per Hi/Lo pair
Contact Potential Single	less than 3 uV typical class
Offset Current	less than 100 pA
Actuation Time	3 ms
Isolation Bank	greater than 1E9 ohm, less than 25 pF
Crosstalk 1 MHz 50 Ohm	less than -40 dB channel
Insertion Loss	less than 0.1 dB below 1 MHz, less than 3 dB below 2 MHz
Relay Drive Current	16 mA per relay
Operating Temperature	0 C to 50 C, up to 35 C less than 80 percent RH
Storage Temperature	-25 C to 65 C

PARAMETER	VALUE
Related Mass Terminated	7011-C (96-pin DIN; less than 1 uV pair potential)
Related FormCMux	7111-S
Accessories	7011-KIT-R class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 C to 65 C
Operating temperature	0 C to 50 C, up to 35 C less than 80 percent RH
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Related Mass Terminated	7011-C (96-pin DIN; less than 1 uV pair potential)
Related FormCMux	7111-S
Accessories	7011-KIT-R class Notes Specs from Keithley Models 7011-S and 7011-C instruction manual. Confirm S (screw) versus C (DIN) before ordering cables. Jumpers determine backplane isolation. Pair contact potential less than 500 nV is the S-version differentiator versus 7011-C.

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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Notes

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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.