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Data Sheet

August 13, 2026

KEITHLEY

Keithley 7013-C / 7013C

The Keithley 7013-C is an 8×1 multiplexer card designed for integration into Keithley Series 700 switching mainframes. This Form C relay module routes signals from eight independent inputs to a single common output, enabling flexible signal path configuration in automated test systems. The 7013-C delivers the switching reliability required for repeatable measurements in laboratory and production test environments. Form C relay architecture supports both make-before-break and break-before-make switching logic. Aumictech offers NIST-traceable calibration and repair for the Keithley 7013-C / 7013C. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Keithley 7013-C / 7013C is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple u



MODEL

Keithley 7013-C / 7013C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7013-C / 7013C

LISTING

<https://aumictechlabs.com/products/7013-c-7013c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7013-C is an 8×1 multiplexer card designed for integration into Keithley Series 700 switching mainframes. This Form C relay module routes signals from eight independent inputs to a single common output, enabling flexible signal path configuration in automated test systems. The 7013-C delivers the switching reliability required for repeatable measurements in laboratory and production test environments. Technical Specifications Configuration: 8 inputs to 1 common

output (8×1) Relay Type: Form C (SPDT) relays Key Features Multiple independent signal paths for flexible routing Form C relay architecture supports both make-before-break and break-before-make switching logic Direct integration with Keithley Series 700 mainframes Modular design for custom switching system configurations Typical Applications Automated test equipment (ATE) signal routing Semiconductor device testing Data acquisition and multiplexing Environmental test chamber instrumentation General laboratory switching and signal distribution Compatibility & Integration The 7013-C mounts directly into Keithley Series 700 switching mainframes. Connector type and physical form factor are determined by the host mainframe. Verify mainframe compatibility based on your system's hardware and firmware revision prior to procurement.

Features & description

From manufacturer datasheet

Features

- 20 independent isolated 2-pole channels (notamux or matrix)

7013C7013C Characteristics / Specifications

PARAMETER	VALUE
Model	7013-C
Manufacturer	Keithley Instruments
Instrument Type	20 channel isolated relay switch card
Alias	7013C; 7013-C; 7013-C / 7013C
Host mainframes	7001 and 7002
Channel count	20 independent 2 pole switches
Contact configuration	2 pole Form A (Hi, Lo)
Connector C	96-pin male DIN
ConnectorSsibling	screw terminal, 16 AWG max
Maximum DC signal	110 V DC between any two pins, 1 A switched, 30 VA resistive
Maximum AC signal	125 V RMS and 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 C	less than 1 uV per channel pair
Contact potential single C	less than 3 uV typical
Offset current	less than 100 pA
Actuation time	3 ms
Isolation channel to channel	greater than 1E10 ohm, less than 25 pF
Isolation differential	greater than 1E10 ohm, less than 50 pF
Isolation common mode	greater than 1E10 ohm, less than 100 pF
Crosstalk 1 MHz 50 ohm	less than -50 dB
Insertion loss	less than 0.1 dB below 1 MHz, less than 3 dB below 10 MHz
Relay drive current	16 mA per relay

PARAMETER	VALUE
Operating	0 C to 50 C, up to 35 C less than 80% RH
Storage	-25 C to 65 C
Related screw	7013-S (less than 500 nV pair)
Accessories	7011-MTC-1, 7011-MTC-2, 7011-KIT-R, 7013-ST Notes Specs from Keithley Models 7013-S and 7013-C 20-channel relay switch cards instruction manual. 7013-C and 7013C are the same mass-terminated card. Isolated switches are not 7011 multiplexers.
Bandwidth	is 10 MHz class (versus 2 MHz on 7011/7012). Ratings remain 110 V DC / 1 A with less than 1 uV pair potential and less than 100 pA offset.

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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Maximum DC signal	110 V DC between any two pins, 1 A switched, 30 VA resistive
Maximum AC signal	125 V RMS and 175 V AC peak, 1 A switched, 60 VA resistive
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PARAMETER	VALUE
Contact life cold	1E8 closures
Contact life max signal	1E5 closures
Channel resistance	less than 1 ohm per conductor

Specifications

PARAMETER	VALUE
Contact potential pair C	less than 1 uV per channel pair
Contact potential single C	less than 3 uV typical
Offset current	less than 100 pA

Specifications

PARAMETER	VALUE
Actuation time	3 ms
Isolation channel to channel	greater than 1E10 ohm, less than 25 pF
Isolation differential	greater than 1E10 ohm, less than 50 pF

Specifications

PARAMETER	VALUE
Isolation common mode	greater than 1E10 ohm, less than 100 pF
Crosstalk 1 MHz 50 ohm	less than -50 dB
Insertion loss	less than 0.1 dB below 1 MHz, less than 3 dB below 10 MHz

Specifications

PARAMETER	VALUE
Relay drive current	16 mA per relay
Operating	0 C to 50 C, up to 35 C less than 80% RH
Storage	-25 C to 65 C

Related screw: 7013-S (less than 500 nV pair)

Accessories: 7011-MTC-1, 7011-MTC-2, 7011-KIT-R, 7013-ST

Notes

Specs from Keithley Models 7013-S and 7013-C 20-channel relay switch cards instruction manual. 7013-C and 7013C are the same mass-terminated card. Isolated switches are not 7011 multiplexers.

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.