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Data Sheet
August 13, 2026

KEITHLEY

Keithley 7071-4

Keithley 7071-4 Dual 4×12 General Purpose Matrix Card The 7071-4 isadual 4×12 three-pole (Hi, Lo, Guard) general-purpose matrix card for 707A/708A (and 707/708) mainframes. Jumpers to the analog backplane allow automatic card-to-card expansion; jumpers may be removed or repositioned to build 8×12 or 4×24. 38-pin mass-terminated connectors plus screw terminals on rows are provided. Maximum 200 V, 1 A carry / 0.5 A switched, 10 VA. Five 707A mainframes can expand to 720 columns in literature. Guarded 3-pole general-purpose matrices; expanding 707A column count; 4×24 or dual 4×12 fixtures; 7078-MTC mass-terminated cables with 7078-KIT/MTR. The 7071-4 isadual 4×12 three-pole (Hi, Lo, Guard) general-purpose matrix card for 707A/708A (and 707/708) mainframes. Jumpers to the analog backplane allow automatic card-to-card expansion; jumpers may be removed or repositioned to build 8×12 or 4×24. 38-pin mass-terminated connectors plus screw terminals on rows are provided. Maximum 200 V, 1 A carry / 0.5 A switched, 10 VA. Five 707A mainframes can expand to 720 columns in literature. Guarded 3-pole general-purpose matrices; expanding 707A column count; 4×24 or dual 4×12 fixtures; 7078-MTC mass-terminated cables with 7078-KIT/MTR.

MODEL **Keithley 7071-4**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **7071-4**	LISTING **https://aumictechlabs.com/products/7071-4-2/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Keithley 7071-4 is a Dual 4×12 General Purpose Matrix Card that expands the switching capabilities of Keithley 707A and 708A mainframes. This card enables column expansion up to 720 columns across five 707A mainframes through two independent banks of four signal paths. The matrix configuration supports Dual 4×12, 8×12, or 4×24 arrangements via removable jumpers for segment isolation or reconfiguration. Each crosspoint features 3-pole Form A switching (HI, LO, GUARD) with screw terminals on rows and quick-disconnect 38-pin connectors for column connections. Technical Specifications Matrix Configuration: Dual 4 rows × 12 columns; configurable as 8 rows × 12 columns or 4 rows × 24 columns Crosspoint Type: 3-pole Form A (HI, LO, GUARD) Maximum Signal Level: 200 V, 1 A carry / 0.5 A switched, 10 VA peak (resistive load) Common Mode Voltage: 200 V maximum between any 2 pins or chassis Contact Life: 10^8 closures (cold switching); 10^5 closures (at maximum signal level) Path Resistance: <0.6 Ω initial; <1.5 Ω at end of contact life Contact Potential: <5 µV per crosspoint (HI to LO, <1 minute after actuation) Offset Current: 10^{10} Ω with <10 pF; Differential 10^{12} Ω, 45 pF nominal; Common Mode 10^{12} Ω, 300 pF nominal Crosstalk: ⟵45 dB at 1 MHz, 50 Ω load Insertion Loss: 0.1 dB typical (1 MHz, 50 Ω source, 50 Ω load) 3 dB Bandwidth: 5 MHz typical (50 Ω load) Relay Settling Time: <3 msec Relay Drive Current: 15 mA per crosspoint Operating Temperature: 0° to 50°C (up to 35°C at 70% R.H.) Storage Temperature: –25° to 65°C Key Features Quick-disconnect 38-pin connectors for column connections; screw terminals on rows Jumper-configurable architecture for custom matrix topologies Two mass-terminated cable options (1.5 m and 6 m lengths) with shielded twisted pair construction for noise immunity Bulkhead mount receptacle available for panel integration Conforms to EU Directive 89/336/EEC (EMC) and 73/23/EEC (Safety, EN61010-1/IEC 1010) Typical Applications General-purpose signal routing and switching in automated test environments requiring multi-channel matrix expansion and low-noise analog signal paths. Compatibility & Integration Mainframes: Keithley 707A, 708A Accessories: Model 7078-MTC-5 (1.5 m cable), 7078-MTC-20 (6 m cable), 7078-MTR (bulkhead receptacle), 7078-KIT (custom connector kit)

7071 Characteristics / Specifications

PARAMETER	VALUE
Model	7071-4
Manufacturer	Keithley Instruments
Instrument Type	Dual 4×12 general purpose matrix card
Alias	7071-4; 70714
Host mainframes	707, 707A, 708, 708A (B-list notes differ)
Matrix configuration	dual 4 rows by 12 columns
Alternate configuration	8×12 or 4×24
Crosspoint configuration	3 pole Form A (Hi, Lo, Guard)
Crosspoint count	96 (dual 4×12)
Connector	38-pin mass terminated; screw terminals on rows
Maximum signal	200 V, 1 A carry / 0.5 A switched, 10 VA peak resistive
Common mode voltage	200 V max between any two pins or chassis
Contact life cold	1E8 closures
Contact life max signal	1E5 closures
Path resistance initial	less than 0.6 ohm per conductor
Path resistance end of life	less than 1.5 ohm
Contact potential	less than 5 uV per crosspoint Hi to Lo (less than 1 minute after actuation)
Offset current	less than 100 pA Hi to Lo
Path isolation	greater than 1E10 ohm, less than 10 pF
Differential isolation	1E9 ohm, 45 pF nominal
Common mode isolation	1E9 ohm, 300 pF nominal
Crosstalk	less than -45 dB at 1 MHz, 50 ohm load
Insertion loss	0.1 dB typical at 1 MHz, 50 ohm
Bandwidth 3 dB	5 MHz typical, 50 ohm load
Relay settling	less than 3 ms

PARAMETER	VALUE
Operating	0 C to 50 C, 70% RH to 35 C
Storage	-25 C to 65 C
Accessories	7078-MTC, 7078-KIT, 7078-MTR, 7078-CIT, 7078-HCT
Related 8x	Model 7071 single 8×12 3-pole Notes Specs from Keithley 7071-4 dual 4×12 general purpose matrix card data sheet. Confirm 707B/708B card-support list if installing inaBmainframe. Not the 7072 semiconductor triax card.
Bandwidth	Technical Specifications

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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Operating	0 C to 50 C, 70% RH to 35 C
Storage	-25 C to 65 C

Accessories: 7078-MTC, 7078-KIT, 7078-MTR, 7078-CIT, 7078-HCT

Related 8x12: Model 7071 single 8×12 3-pole

Notes

Specs from Keithley 7071-4 dual 4×12 general purpose matrix card data sheet. Confirm 707B/708B card-support list if installing inaBmainframe. Not the 7072 semiconductor triax card.

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

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