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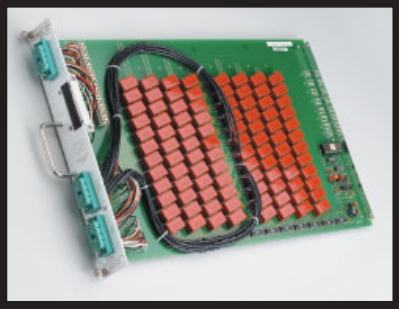
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Find the *Keithley 7071-4* at our website: ***Click HERE***

7071-4

General Purpose Matrix Card

Dual 4×12



- **Two independent 4×12 matrix switches**
- **3-pole switching (HI, LO, GUARD)**
- **Connect to general purpose analog backplane**
- **Configuration easily adapted with jumpers**
- **4×24 or dual 4×12 configuration**
- **Compatible with Models 707A and 708A**

The Model 7071-4 Dual 4×12 General Purpose Matrix Card provides the capability to expand the number of columns that the Model 707A will support to a maximum of 720 in five 707A mainframes. This matrix card has two banks of four signal paths that connect through jumpers to the general purpose analog backplane in the 707A mainframe for automatic interconnect between cards. Jumpers may be removed to isolate any 4×12 matrix segment or repositioned to cascade segments into a 4×24 configuration.

Column connections to the matrix are through two 38-pin mass terminated connectors. The corresponding cable accessory, Model 7078-MTC, is constructed with 12 sets of shielded twisted pair circuits for excellent noise immunity and electrical separation. Custom cables and harnesses can be assembled using the 7078-KIT Connector Kit. The mating bulkhead connector, Model 7078-MTR, is also available.

ACCESSORIES AVAILABLE

7078-CIT	Contact Insertion and Extraction Tools
7078-HCT	Hand Crimping Tool
7078-KIT	Mass Terminated Plug with Contacts
7078-MTC-5	Mass Terminated Cable Assembly, 1.5m (5 ft)
7078-MTC-20	Mass Terminated Cable Assembly, 6m (20 ft)
7078-MTR	Mass Terminated Receptacle with Contacts

SERVICES AVAILABLE

7071-4-3Y-EW	1-year factory warranty extended to 3 years from date of shipment

MATRIX CONFIGURATION: Dual 4 rows by 12 columns. Also configurable as 8 rows by 12 columns or 4 rows by 24 columns.

CROSSPOINT CONFIGURATION: 3 pole Form A (HI, LO, GUARD).

CONNECTOR TYPE: Quick disconnect using 38-pin connectors. In addition, screw terminals are available on rows.

MAXIMUM SIGNAL LEVEL: 200V, 1A carry/0.5A switched, 10VA peak (resistive load).

COMMON MODE VOLTAGE: 200V maximum between any 2 pins or chassis.

CONTACT LIFE:
Cold Switching: 10^8 closures.
At Maximum Signal Level: 10^5 closures.

PATH RESISTANCE (per conductor): <0.6Ω initial, <1.5Ω at end of contact life.

CONTACT POTENTIAL: <5μV per crosspoint (HI to LO, <1 minute after actuation).

OFFSET CURRENT: <100pA (HI to LO).

ISOLATION:
Path: > 10^{10}Ω, <10pF.
Differential: 10^9Ω, 45pF nominal.
Common Mode: 10^9Ω, 300pF nominal.

CROSSTALK: <–45dB at 1MHz, 50Ω load.

INSERTION LOSS (1MHz, 50Ω source, 50Ω load): 0.1dB typical.

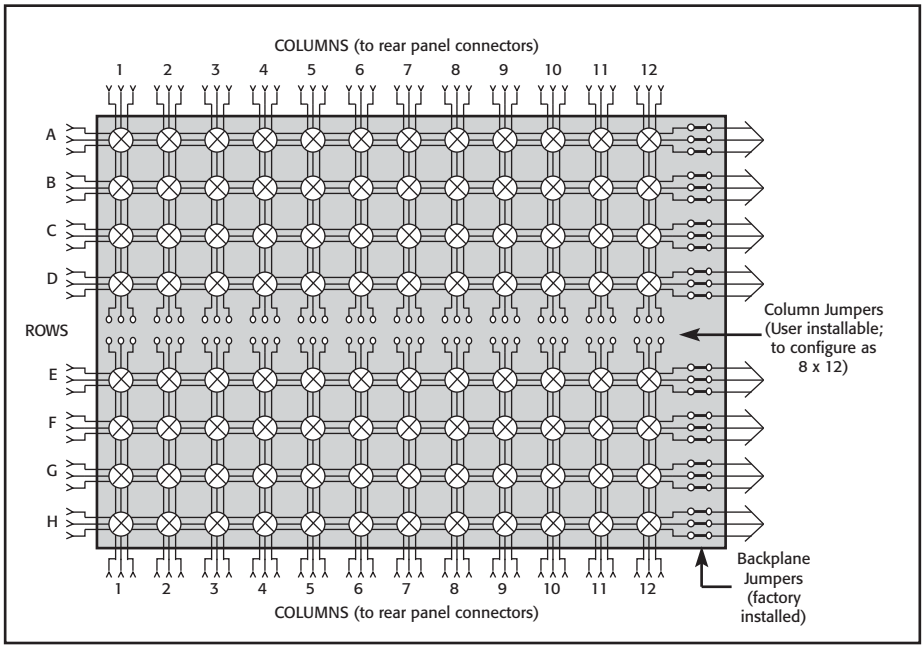
3dB BANDWIDTH (50Ω load): 5MHz typical.

RELAY SETTLING TIME: <3msec.

EMC: Conforms to European Union Directive 89/336/EEC.

SAFETY: Conforms to European Union Directive 73/23/EEC (meets EN61010-1/IEC 1010).

ENVIRONMENT:
Operating: 0° to 50°C, up to 35°C at 70% R.H.
Storage: –25° to 65°C.



Ordering Information

7071-4 **Dual 4×12 General Purpose Matrix Card**

Accessories Supplied

Screw terminal adapter for 4×24 configuration

SWITCHING AND CONTROL

Use with Models 707A and 708A switching matrix mainframes

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