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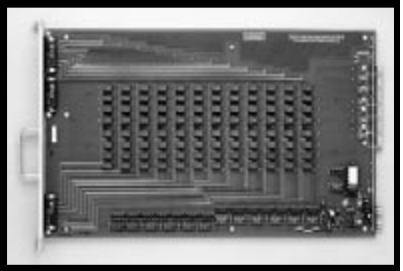
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Find the *Keithley 7076* at our website: *Click HERE*

7076

Two-Pole Matrix Card

Dual 4×12



- Low cost
- <5µV voltage offset
- <100pA offset current
- 15MHz bandwidth
- 110V, 1A signal levels
- Uses standard 25-pin D connectors

Ordering Information

7076 Dual 4×12 Two-Pole Matrix Card

Extended warranty, service, and calibration contracts are available.

Accessories Supplied

Jumpers for multiplexer expansion

The Model 7076 is a general purpose matrix switching card that consists of two independent 4×12 switching matrices. Each matrix has two switched circuits (HI and GUARD). The four row signal paths are connected through jumpers to the general purpose analog backplane in the Model 707A switching mainframe. This provides the interconnect between cards for column expansion (4×24, 4×36, etc.). The jumpers can be removed to isolate any matrix. The columns of the two matrices on each card can be tied together with on-card jumpers for expansion to an 8×12 matrix. Connections to the matrix are through standard 25-pin D connectors for mass termination. There are two column connectors, one for each bank, and one row connector.

MATRIX CONFIGURATION: Dual 4 rows by 12 columns. Also configurable as 8 rows by 12 columns. Jumpers can be removed to isolate any row from the backplane.

CROSSPOINT CONFIGURATION: 2-pole Form A (HI, GUARD).

CONNECTOR TYPE: 25-pin subminiature D connector, two for column connection, one for row connection.

MAXIMUM SIGNAL LEVEL:

DC Signals: 110V DC, 1A switched, 30VA (resistive load).

AC Signals: 175V AC peak, 1A switched, 62.5VA (resistive load).

COMMON MODE VOLTAGE: 110V DC, 175V AC peak pin-to-pin or pin-to-chassis.

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

PATH RESISTANCE (per conductor): <0.50Ω initial, <1.5Ω at end of contact life.

CONTACT POTENTIAL: <5µV per crosspoint (HI to GUARD).

OFFSET CURRENT: <100pA.

CROSSTALK (1MHz, 50Ω load) <–50dB.

INSERTION LOSS (1MHz, 50Ω source, 50Ω load): 0.05dB typical.

ISOLATION:
Path: $>10^{10}$Ω, <5pF.
Differential: $>10^9$Ω, 120pF nominal.
Common Mode: $>10^9$Ω, 200pF nominal.

3dB BANDWIDTH (50Ω load): 15MHz typical.

RELAY DRIVE CURRENT (per crosspoint): 28mA.

RELAY SETTLING TIME: <3ms.

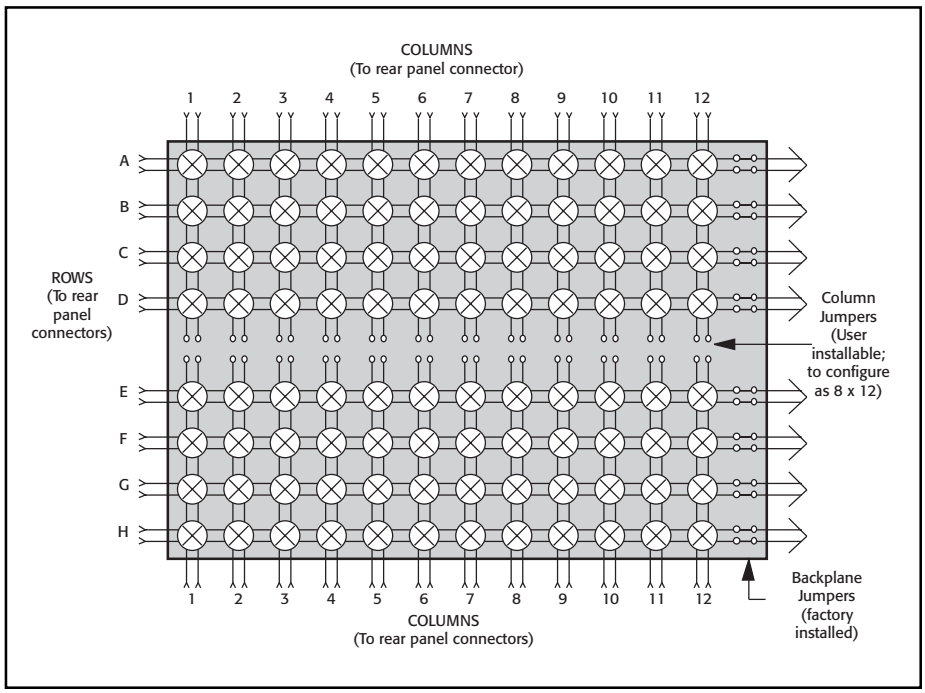
EMC: Conforms to European Union Directive 89/336/EEC.

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.

ACCESSORIES AVAILABLE

7076-RMTC	High Isolation Row Cable Assembly, 3m (10 ft)
7076-CMTC	High Isolation Column/Bank Cable Assembly, 3m (10 ft)
7075-MTC	Row/Column/Bank Standard Cable Assembly, 3m (10 ft)



Use with Model 707A and 708A switching matrix mainframes

SWITCHING & CONTROL

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