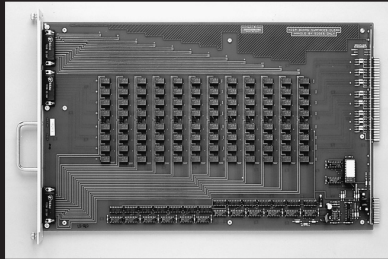


7076



- Low cost
- $<5\mu\text{V}$  voltage offset
- $<100\text{pA}$  offset current
- 15MHz bandwidth
- 110V, 1A signal levels
- Uses standard 25-pin D connectors

### Ordering Information

7076 Dual 4x12 Two-Pole Matrix Card

Extended warranty, service, and calibration contracts are available.

### Accessories Supplied

Jumpers for multiplexer expansion.

# Two-Pole Matrix Card

## Dual 4x12

The Model 7076 is a general purpose matrix switching card that consists of two independent 4x12 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 (4x24, 4x36, 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 8x12 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):**  $<0.50\Omega$  initial,  $<1.5\Omega$  at end of contact life.

**CONTACT POTENTIAL:**  $<5\mu\text{V}$  per crosspoint (HI to GUARD).

**OFFSET CURRENT:**  $<100\text{pA}$ .

**CROSSTALK (1MHz, 50 $\Omega$  load)**  $<-50\text{dB}$ .

**INSERTION LOSS (1MHz, 50 $\Omega$  source, 50 $\Omega$  load):** 0.05dB typical.

**ISOLATION:**

Path:  $>10^{10}\Omega$ ,  $<5\text{pF}$ .

Differential:  $>10^9\Omega$ , 120pF nominal.

Common Mode:  $>10^9\Omega$ , 200pF nominal.

**3dB BANDWIDTH (50 $\Omega$  load):** 15MHz typical.

**RELAY DRIVE CURRENT (per crosspoint):** 28mA.

**RELAY SETTling TIME:**  $<3\text{ms}$ .

**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:  $0^\circ$  to  $50^\circ\text{C}$ , up to  $35^\circ\text{C}$  at 70% R.H.

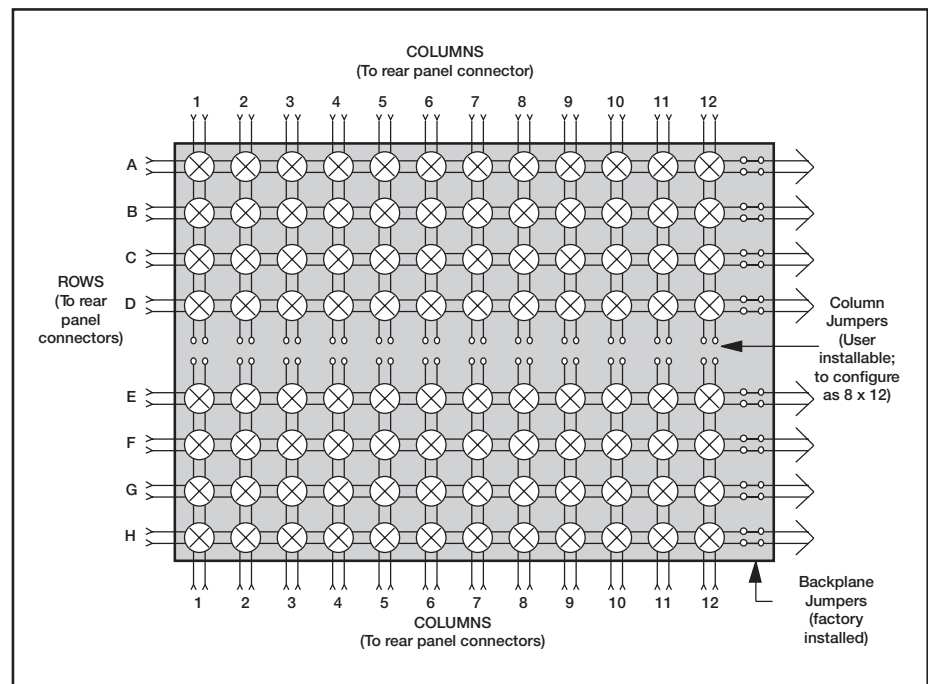
Storage:  $-25^\circ$  to  $65^\circ\text{C}$ .

### 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)



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