

7074-D



- Dry reed contacts
- 3-pole Form A switching (HI, LO, GUARD)
- 200V, 1A signal levels

Ordering Information

7074-D Eight 1x12, Dry Reed General Purpose Multiplexer

This product is available with an Extended Warranty.

Accessories Supplied

8 spare backplane jumpers

General Purpose Multiplexer

Eight 1x12, Dry Reed

The Model 7074-D consists of eight banks of independent 1x12 multiplexer switching. Each bank has three switched circuits (HI, LO, Guard) and is connected through jumpers on the switching card to one of eight general-purpose signal paths, which provide automatic interconnect between switching cards. Jumpers may be removed to isolate any bank of switching or repositioned to cascade banks into longer switching configurations (1x24, 1x36, dual 1x48, 1x96, etc.) or banks may be connected in a tree configuration for improved isolation.

Channel inputs of the multiplexer card are through four 75-pin mass terminated connectors. The corresponding cable accessory 7074-MTC is constructed with 24 sets of shielded twisted pair circuits for excellent noise immunity and electrical separation. Connections to the general purpose analog backplane can be accessed through jumpers on the multiplex card or by external connection through the mass terminated row connector provided.

MULTIPLEX CONFIGURATION: Eight 1x12 banks. Adjacent banks can be connected together. Jumpers can be removed to isolate any bank from the backplane.

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

CONNECTOR TYPE: Four 75-pin connectors for bank connections, one 38-pin connector for row connections.

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

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

OFFSET CURRENT: <100pA.

ISOLATION:
 Bank: >10¹⁰Ω, <10pF.
 Channel: >10¹⁰Ω, <10pF.
 Differential: Configured as a 1x12: >10⁹Ω, 55pF nominal.
 Common Mode: Configured as a 1x12: >10⁹Ω, 300pF nominal.

CROSSTALK:
 Bank: <-55dB at 1MHz, 50Ω load.
 Channel: <-55dB at 1MHz, 50Ω load.

CONTACT LIFE: Cold Switching: 10⁸ closures. At Maximum Signal Levels: 10⁵ closures

CONTACT POTENTIAL: (per contact pair, <1 minute after actuation): <5μV

CHANNEL RESISTANCE: Initial: <0.6Ω. At End of Contact Life: <1.6Ω.

RELAY DRIVE CURRENT: (per relay): 15mA.

INSERTION LOSS (1MHz, 50Ω source, 50Ω load):
 Configured as a 1x12: 0.1dB typical.

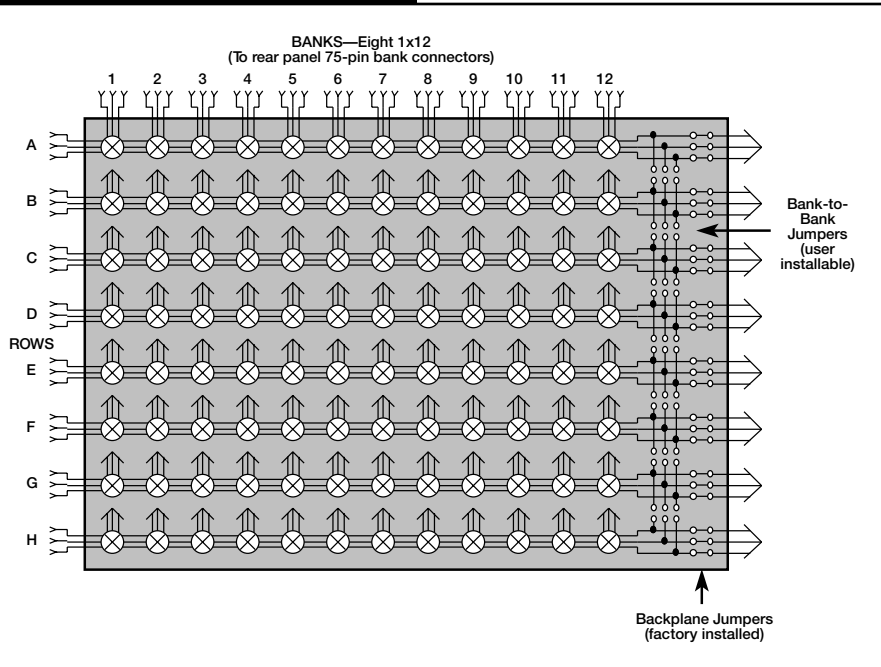
3dB BANDWIDTH (50Ω load):
 Configured as a 1x12: 5MHz typical.

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 @ 70% R.H.
Storage: -25° to 65°C.



ACCESSORIES AVAILABLE

BANK CONNECTOR ACCESSORIES

7074-CIT	Contact Extraction Tool
7074-HCT	Hand Crimping Tool
7074-KIT	Mass Terminated Plug with Contacts
7074-MTC-20	Mass Terminated Cable Assembly, 6m (20 ft)
7074-MTR	Mass Terminated Receptacle with Contacts
7074-RTC	Relay Test Shorting Connector

ROW CONNECTOR ACCESSORIES

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

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SWITCHING & CONTROL