

7075 Eight 1×12 Two-Pole Multiplexer Card

MULTIPLEX CONFIGURATION: Eight 1×12 banks. Adjacent banks can be connected together. Jumpers can be removed to isolate any bank from the backplane.

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

CONNECTOR TYPE: 25-pin subminiature D connector, eight for bank connection, one for row connection.

MAXIMUM SIGNAL LEVEL:

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

AC Signals: 175V AC peak pin to pin, 1A switched, 60VA (resistive load).

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

CONTACT LIFE:

Cold Switching: 10⁸ closures.

At Maximum Signal Level: 10⁵ closures.

CHANNEL RESISTANCE (per conductor): <0.60Ω initial, <1.5Ω at end of contact life.

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

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

CROSSTALK (1MHz, 50Ω load):

Bank: <-60dB.

Channel: <-60dB.

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

3dB BANDWIDTH (50Ω load):

Configured as 1×12: 30MHz typical.

Configured as 1×96: 2.5MHz typical.

ISOLATION:

Bank: >10¹⁰Ω, <3pF

Channel: >10¹⁰Ω, <5pF

Differential:

Configured as 1×12: >10⁹Ω, <100pF nominal.

Configured as 1×96: >10⁸Ω, <600pF nominal.

Common Mode:

Configured as 1×12: >10⁹Ω, <165pF nominal.

Configured as 1×96: >10⁸Ω, <700pF nominal.

RELAY DRIVE CURRENT (per relay): 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.

ACCESSORY SUPPLIED: Instruction manual, jumpers for multiplexer expansion.

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)

* Standard cable can be used for either row or column connection.

Specifications are subject to change without notice.

