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: 10^8 closures.
  At Maximum Signal Level: 10^5 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: >10^{10}Ω, <3pF.
  Channel: >10^{10}Ω, <5pF.
  Differential:
    Configured as 1×12: >10^9Ω, <100pF nominal.
    Configured as 1×96: >10^8Ω, <600pF nominal.
  Common Mode:
    Configured as 1×12: >10^9Ω, <165pF nominal.
    Configured as 1×96: >10^8Ω, <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.