

7999-2 Three-Pole Multiplexer Card

RELAY SWITCH CONFIGURATION:

- 1 bank of 3:1 mux 3-pole switching.
- 1 bank of 4:1 mux 3-pole switching.

CONTACT CONFIGURATION: 3-pole Form A.

CONNECTOR TYPE:

- Mux Common Connector (1):** 6-pin LEMO.
- Mux Input/Output Connectors (7):** 3-pin LEMO.
- Control Connectors (1):** 15-pin male D-sub.

MAXIMUM SIGNAL: 30V DC, 42V peak between any two inputs or chassis, 1A switched, CAT I.

CONTACT LIFE: Cold Switching: 10×10^6 closures.
At Maximum Signal Levels: 2×10^5 closures.

CHANNEL RESISTANCE (per conductor): $<1\Omega$.

CONTACT POTENTIAL: $<10\mu\text{V}$ per contact.

ACTUATION TIME: 3ms.

ISOLATION: Channel to Channel: $>10^9\Omega$, $<80\text{pF}$.
Common Mode: $>10^9\Omega$, $<150\text{pF}$.

CROSSTALK (1MHz, 50 Ω load): $<-40\text{dB}$.

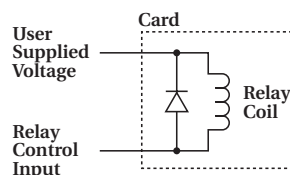
INSERTION LOSS (50 Ω source, 50 Ω load): $<0.1\text{dB}$ $\leq 20\text{kHz}$, $>25\text{dB}$ @ 2GHz.

RELAY DRIVE CURRENT (per relay): 8.5mA @ 24V (user supplied).

USER SUPPLIED VOLTAGE: 24V \pm 4V DC, 175mA max.

RELAY CONTROL INPUT: Relay Closed: $<2.0\text{V}$.
Relay Open: User supplied voltage.

RELAY DRIVE CONFIGURATION:



GENERAL

ENVIRONMENT: Operating: 0° to 50°C, up to 35°C $<80\%$ RH.

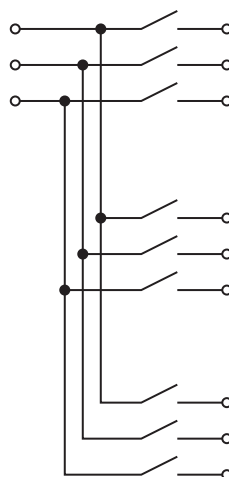
Storage: -25° to 65°C.

EMC: Conforms with European Union Directive 89/336/EEC, EN 55011, EN 50082-1, EN 61000-3-2 and 61000-3-3, FCC part 15 class B.

SAFETY: Conforms with European Union Directive 73/23/EEC, EN 61010-1.

DIMENSIONS: 152mm long \times 102mm wide \times 13mm deep (6" \times 4" \times 1/2").

3:1 MUX 3-Pole Switch



4:1 MUX 3-Pole Switch

