

# 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:**  $10 \times 10^6$  closures.  
**At Maximum Signal Levels:**  $2 \times 10^5$  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 $\Omega$  load):**  $<-40\text{dB}$ .

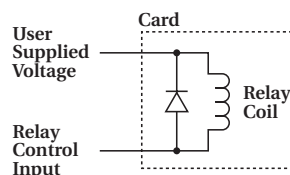
**INSERTION LOSS (50 $\Omega$  source, 50 $\Omega$  load):**  $<0.1\text{dB}$   $\leq 20\text{kHz}$ ,  $>25\text{dB}$  @ 2GHz.

**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.

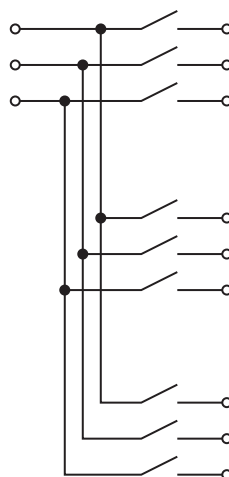
**Storage:** -25° to 65°C.

**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

