# 7701 150V 32-Channel Differential Multiplexer

#### GENERAL

**32 CHANNELS:** 32 channels of 2-pole relay input. All channels configurable to 4-pole.

**RELAY TYPE:** Latching electromechanical.

ACTUATION TIME: <3ms.

FIRMWARE: Specified for Model 2700 rev. B03 and Model 2750 rev. A01. DMM CONNECTIONS: Screw terminals provide internal DMM connections to channels 34 and 35 and connections to external wiring access.

#### CAPABILITIES

CHANNELS 1–32: Multiplex one of 32 2-pole or one of 16 4-pole signals into DMM. Configuration supports dual 1×16 independent multiplexers.

## INPUTS

- MAXIMUM SIGNAL LEVEL: Any channel to Any Channel (1–32): 150V DC or 150Vrms (212V peak) for AC waveforms, 1A switched, 60W, 125VA maximum.
- SAFETY: Conforms to European Union Directive 73/23/EEC EN61010-1, CAT I.
- **CONTACT LIFE (typ):**  $>10^5$  operations at max signal level.  $>10^8$  operations cold switching.
- CONTACT RESISTANCE:  ${<}1\Omega$  any path and additional  $1\Omega$  at end of contact life.
- CONTACT POTENTIAL:  $<6\mu V$  per contact pair.

OFFSET CURRENT: <100pA.

**CONNECTOR TYPE:** 50-pin female D-shell, Channels 1–24. 25-pin female D-shell, Channels 25–32.

Supplied with male IDC ribbon cable connectors.

ISOLATION BETWEEN ANY TWO TERMINALS: >10° $\Omega$ , <200pF. ISOLATION BETWEEN ANY TERMINAL AND EARTH: >10° $\Omega$ , <400pF.

CROSS TALK (1MHz, 50Ω Load): <-35dB.

**COMMON MODE VOLTAGE:** 300VDC or 300Vrms (425V peak) for AC waveforms between any terminal and chassis.

### **ENVIRONMENTAL:**

OPERATING ENVIRONMENT: Specified for 0°C to 50°C. Specified to 50% R.H. at 35°C.

STORAGE ENVIRONMENT: -25°C to 65°C.

## WEIGHT: <0.52kg (1.16 lb).

ACCESSORIES AVAILABLE:

Model 7789 50/25 Pin Male D-Shell Solder Cup Connectors Model 7790 50/50/25 Pin Female/Male D-Shell IDC Connectors

