7709 6x8 Matrix Module

GENERAL

MATRIX CONFIGURATION: 6 rows ∞ 8 columns. CONTACT CONFIGURATION: 2 pole Form A. FIRMWARE: Specified for Model 2700 rev. B03 and Model 2750 rev. A01. RELAY TYPE: Latching electromechanical. ACTUATION TIME: <3ms.

CAPABILITIES

DMM CONNECTION:

2-Wire Functions

Row 1, channels 1–8, through channel 50.

4-Wire Functions

Row 1, channels 1–4 (Input) through channel 50 and Row 2, channels 13–16 (Sense), through channel 49.

CLOSE CHANNEL: CLOSE command connects channels 1–8 to DMM. For 4-wire, channels 1–4 are automatically paired with channels 13–16. ROUTE:MULTiple allows any combination of rows and columns to be connected at the same time.

INPUTS

- MAXIMUM SIGNAL LEVEL: Any Channel to Any Channel (1–48): 300VDC or 300Vrms (425V peak) for AC waveforms, 1A switched, 60W, 125VA maximum.
- SAFETY: Conforms to European Union Directive 73/23/EEC EN61010-1, CAT I.

CONTACT RESISTANCE: <1 any path and additional 1 at end of contact life.

CONTACT POTENTIAL: <3µV per contact pair.

OFFSET CURRENT: <100pA.

CONNECTOR TYPE: 50-pin female D-shell for rows and columns. 25-pin female D-shell for "daisy-chain" rows. Supplied with male IDC ribbon cable connectors.

ISOLATION BETWEEN ANY TWO TERMINALS: >10⁹, <200pE ISOLATION BETWEEN ANY TERMINAL AND EARTH: >10⁹, <400pE CROSS TALK (1MHz, 50 Load): <-35dB.

INSERTION LOSS (50 Source, 50 Load): <0.35dB below 1MHz. <3dB below 2MHz.

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 778950/25 Pin Male D-Shell Solder Cup ConnectorsModel 779050/50/25 Pin Female/Male D-Shell IDC Connectors

1. Minimum signal level 10mV, 10uA.

