Model 7173-50 High Frequency Two-Pole 4×12 Matrix Card

MATRIX CONFIGURATION: 4 rows by 12 columns.

CROSSPOINT CONFIGURATION: 2-pole Form C with Row Isolator(HL LO).

CHARACTERISTIC IMPEDANCE: 50Ω nominal.

CONNECTOR TYPE: BNC.

MAXIMUM SIGNAL LEVEL: 30V, 0.5A switched, 10VA. COMMON MODE VOLTAGE: 42V peak (LO to Chassis).

CONTACT LIFE:

Cold Switching: 5×10^6 closures.

At Maximum Šignal Level: 3 × 105 closures.

PATH RESISTANCE:

HI: $<2.0\Omega$ initial, $<4.0\Omega$ at end of contact life.

LO: $<0.10\Omega$ initial, $<0.15\Omega$ at end of contact life.

CONTACT POTENTIAL: <15µV per crosspoint (HI to LO).

OFFSET CURRENT: <200pA (HI to LO).

ISOLATION:

Path: > $10^{10}\Omega$, <0.040pF. Differential: > $10^{9}\Omega$, 150pF nominal. Common Mode: > $10^{9}\Omega$, 9400pF nominal.

RISE TIME (50 Ω load and 50 Ω source): : <2nS.

AC PERFORMANCE (50 Ω load and 50 Ω source):

			100 MHz	200MHz
CROSSTALK:1			<-35dB	
INSERTION LOSS:	<0.2dB	<0.4dB	<1.5dB	<3.0dB
VSWR (TYPICAL):			1.4	1.7

¹Closed crosspoint to closed crosspoint

RELAY DRIVE CURRENT: 108mA (per crosspoint).

RELAY SETTLING TIME: <6ms.

ENVIRONMENT:

Operating: 0° to 50°C, up to 35°C at 70% R.H.

Storage: -25° to 65°C.

ACCESSORY SUPPLIED: Instruction manual.

Specifications apply for one 7173-50 with all row isolators in automatic mode.

Specifications subject to change without notice.

Simplified Model 7173-50 Schematic

