

DC - 18 GHz RF Switch Matrix

Applications

The Model is a bi-directional coaxial switch matrix system that performs up to 18.0 GHz and can be configured with up to 2 inputs and up to 18 outputs. Users can easily access this matrix through traditional RS 232, RS 485 and GPIB controls. Each unit is equipped with an LCD front panel display and keypad for manual override. Housed in a low profile (7"H 4U) 19"W x 20"D rack mountable chassis.



Features

From 2 input by 18 outputs (2X18)
 Manual control - included
 Remote control - RS, GPIB and ENET
 LCD Display with Front Panel Control

RF Characteristics

Impedance: 50 Ohms
 Operating Frequency: DC – 18 GHz
 Switching Speed: 50 – 100ms Max
 Operating Life: 1,000,000 cycles (Cold Switching)

Voltage Standing Wave Ratio (VSWR)

Frequency (GHz)			
DC-4	4-8	8-12	12-18
1.25	1.40	1.50	1.80

Insertion Loss (dB)

Frequency (GHz)			
DC-4	4-8	8-12	12-18
1.50	2.00	2.50	3.00

Open Channel Isolation (dB)

Frequency (GHz)			
DC-4	4-8	8-12	12-18
75	70	65	60

RF Carry Power (W)

Frequency (GHz)			
DC-4	4-8	8-12	12-18
100	80	65	50

*Representing combined input power on all max inputs at the same time

Physical

Relay Type: Latching Multiposition / Electromechanical
 Contact Material: Beryllium copper, gold-plated
 I/O Connectors In/Out: SMA Female jacks
 Dimensions:
 19" wide standard rack mount
 4 U height maximum (7")
 24" depth maximum
 Color Front panel: Gray

Environmental

85–264 VAC (47–63 Hz) @ 350W max
 Standard AC grounded power cable (removable, IEC 320 C19 to NEMA 5–15P)
 Fuse/Breaker: Externally accessible/replaceable
 Storage Temp: -20° to +70° C
 Operating Temp: 0° to +60° C
 Operating humidity: 10 – 80% (non-condensing)

Command and Control

Local control via front panel
 Keypad for manual override and local control
 Remote control via serial and network connection
 ENET Version with the following Remote Controls:
 Rear panel RS232 (DB9 female) standard DCE pin-out
 Default 9600, no parity, 8 data bits, 1 stop bit data rate Network
 10BT/100BT Ethernet interface (RJ45 connector)
 GPIB Version with the following Remote Controls:
 Rear panel RS232 (DB9 female) standard DCE pin-out
 Default 9600, no parity, 8 data bits, 1 stop bit data rate Network
 Rear panel RS 485
 Rear panel IEEE488 / GPIB