



ETL Systems
Excelling in RF Engineering

Model Number:
21174-XXXX

2 x 4 Passive Switch Matrix / Router with local & remote control

Typical applications:

- Uplink as well as down link signals.
- Design verification and manufacturing test



Bi-directional
Passive & non-blocking

**2 common port inputs
x 4 multiport outputs**
capacity

950 - 2450 MHz
operating frequency range.
Ka-band ready

Local control & monitoring of
routing via front panel push buttons &
display



Remote control & monitoring
via RJ45 Ethernet port with SNMP &
web browser interface

Resilience from dual
redundant power supplies

**Dry contact alarm port &
serial communications**
for power supply status





ETL Systems

Excelling in RF Engineering

Model Number: 21174-XXXX

2 x 4 Passive Switch Matrix / Router with local & remote control

Technical specifications and operating parameters

RF Parameters			
Capacity		2 common port inputs x 4 multiport outputs	
Frequency Range		950-2450 MHz (Extended L-band)	
Insertion Loss		4.0 ± 1 dB	Typical, mean across band
Gain Flatness	Full band	± 0.5 dB	
	Any 40MHz	± 0.1 dB	
Connectors & Impedance		50Ω SMA	50Ω N-type
Input return loss	Typical	22 dB	18 dB
	Minimum	18 dB	12 dB
Output return loss	Typical	20 dB	18 dB
	Minimum	16 dB	12 dB
Isolation (switch-to-switch)		80 dB	Maximum between multi-ports
Isolation (splitter ports)		23 dB	Maximum between common ports up to 2250MHz. May degrade to 18 dB beyond this point

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-50°C to +70°C
Humidity	20 to 95% non-condensing

Power		
AC Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	15W	Maximum consumption at steady state
Input RF power	30 dBm	Absolute maximum
PSU	Dual redundant	Diode OR
Hot-swap PSU	No	

System Control	
Local control	Front panel push buttons and display
Remote control & Monitoring	Serial (RS232 or RS422/485) and Ethernet (RJ45) on rear panel.
Alarms	Dry contact (D-Type) & Ethernet (RJ45) for PSU status.

Physical	
Dimensions	2U high x 350mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.