

# 16x1 IF/Extended L-band LS Series Monitoring

Switch with local & remote control

#### Typical applications:

- Signal carrier monitoring of satellite feeds
- Redundancy switching for main applications
- Remote controlled unmanned satcom sites
- Routing signal to multiple IRDs

ETL's LS series range of monitoring switches are available in capacities of 8x1, 16x1, 32x1, 1x8, 16x1 and 32x1. Options with high 1 dB gain compression point are also available for high power applications.

LS switches use solid state switching and so benefit from long life and excellent RF performance.

Other options in the LS Series Range include optional front panel –20dB monitoring port and optional Power over Ethernet (PoE).



www.etlsystems.com



## Model Number: 23226-XXXX

### 16x1 IF/Extended L-band LS Series Monitoring Switch with local & remote control

RF Parameters						
Capacity			16-way Switch			
Frequency Range			50-2450 MHz (IF/Extended L-band)			
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Gain		0±1 dB	0±1 dB	0±1 dB	0±1 dB	
Gain Flatness Full band Any 36MHz		Full band	±1.0 dB	±1.0 dB	±1.5 dB	±1.5 dB
		Any 36MHz	±0.3 dB	±0.3 dB	±0.5 dB	±0.5 dB
	200-2450 MHz	Typical	24 dB	24 dB	14 dB	14 dB
Input Return	200-2430 10112	Minimum	20 dB	20 dB	8 dB	8 dB
Loss	50-200 MHz	Typical	20 dB	20 dB	14 dB	14 dB
	30-200 MIHZ	Minimum	16 dB	16 dB	8 dB	8 dB
Output Potu	Output Return Loss		20 dB	20 dB	14 dB	14 dB
			18 dB	18 dB	8 dB	8 dB
Isolation	O/P-O/P		80 dB Min. between any two output ports			
Isolation		O/P-I/P	80 dB	B Min. between any output port and input port		
Noise Figur	Noise Figure			18 dB Maximum (16 dB Typical)		
1dB GCP		+10 dBm	1dB gain compression point, output power			
OIP3		+20 dBm 3rd order intercept point, output power				
Spurious	In band		< -95 dBm	dBm Typical < -105 dBm		
Out of band		< -80 dBm	-80 dBm 10 MHz - 3 GHz			
Input RF Power		20 dBm	dBm Absolute maximum			
MTBF		>100,000 Hrs				

Environmental			
Operating temperature	0 to 45°C		
Location	Indoor use only		
Storage temperature	-20°C to +75°C		
Humidity	20 to 90% non-condensing	Relative Humidity	
Altitude	10,000 feet AMSL	Above mean sea level	

Power				
PSU Power	85-264Vac 50-60Hz	Fused T 2A H		
AC Consumption	6W	Max. consumption at steady state		
PSU Redundancy	Dual redundant & alarmed	Diode OR. Not hot swap		

System Control				
Local Control	Via front panel LCD & push buttons			
Remote Control & Monitoring	Serial (RS232 or RS422/485) and Ethernet (RJ45-100BASE-TX) with SNMP & web browser interface	Enables control and monitoring and alarms status		
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & Amplifier status			

Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	4 kg	
Colour	White 00-E-55 semi-gloss	

### PRELIMINARY SPECIFICATIONS

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.

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