

1 x 16 IF/Extended L-band LS Series Monitoring Switch

with local & remote control

Typical applications:

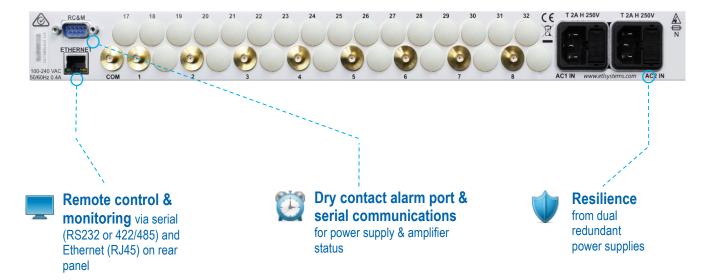
- Signal carrier monitoring of satellite feeds.
- Redundancy switching for main applications.
- Remote controlled unmanned satcom sites.
- Routing signal to multiple IRD's

ETL's LS series range of monitoring switches are available in capacities of 1x8, 1x16, 1x32 and 8x1, 16x1 and 32x1. Options with high 1dB 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).





















Model Number: 23229-xxxx

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Technical specifications and operating parameters

PRELIMINARY

RF Parameters					
Capacity		16 way Switch			
Frequency Range		50-2450 MHz (IF/Extended L-band)			
Impedance & RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain		0±1 dB	0±1 dB	0±1 dB	0±1 dB
Eletnose	Full Band	±0.8 dB	±0.8 dB	±1.5 dB	±1.5 dB
Flatness	Any 36 MHz	±0.3 dB	±0.3 dB	±0.5 dB	±0.5 dB
Input	Typical	20 dB	20 dB	14 dB	14 dB
Return Loss	Minimum	18 dB	18 dB	8 dB	8 dB
Output Return Loss	Typical	20 dB	20 dB	14 dB	14 dB
	Minimum	18 dB	18 dB	8 dB	8 dB
	O/P-O/P	75 dB	Minimum between any two output ports.		
Isolation	O/P-I/P	75 dB	Minimum between any output port and input port.		
Noise Figure		13 dB		Typical	
1 dB GCP		10 dBm		1 dB Gain Compression point, output power	
OIP3		26 dBm		3rd order intercept point, output power.	
Spurious	In Band	<-95 dBm		Typically <-105 dBm	
	Out of band	<-80 dBm		10MHz-3GHz	
MTBF		>100,000 hours			

Environmental		
Operating temperature	0 to 45°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	20 to 90% non-condensing	

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

Power				
PSU Power	85-264Vac 50-60Hz	Fused T 2A H		
AC Consumption	6W	Max. consumption at steady state		
PSU Redundancy	Dual Redundant and Alarmed.	Diode OR. Not hot- swap.		
Input RF Power	16 dBm	Absolute maximum.		

System Control		
Local Control	Via Front Panel LCD and push buttons	
Remote Control & Monitoring	Via RS232 or RS422/485 serial port & RJ45 Ethernet port (100BASE-TX) with SNMP & web browser interface.	
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & Amplifier status	

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.









