

8x1 IF/Extended L-Band LS Series Monitoring Switch

with local & remote control

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

Improved Performance

with faster switching time, improved return loss & isolation

Local control & monitoring

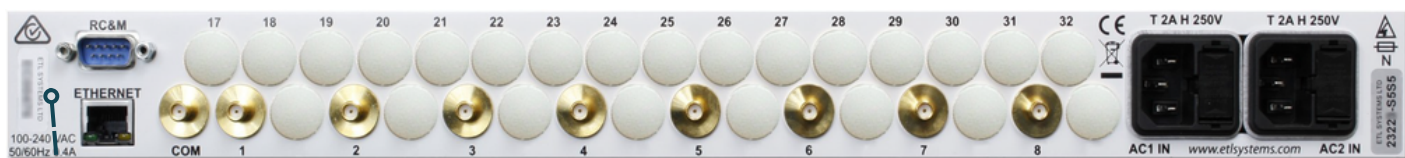
via front panel push buttons & display

Compact

housed in a 1U high chassis

50 - 2450 MHz

operating frequency range



Remote control & monitoring

via RJ45 Ethernet port with SNMP & web browser interface

Dry contact alarm port & serial communications

for amplifier & power supply status

Resilience

from dual redundant power supplies

| RF Parameters | | | | | |
|--------------------|--------------|---|------------------------|-----------------------|-----------------------|
| Capacity | | 8-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 | ±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 |
| Input Return Loss | 200-2450 MHz | 24 dB typ., 20 dB min. | 24 dB typ., 17 dB min. | 14 dB typ., 8 dB min. | 14 dB typ., 8 dB min. |
| | 50-200 MHz | 20 dB typ., 16 dB min. | 20 dB typ., 16 dB min. | 14 dB typ., 8 dB min. | 14 dB typ., 8 dB min. |
| Output Return Loss | Typical | 20 dB | 20 dB | 14 dB | 14 dB |
| | Minimum | 18 dB | 15 dB | 8 dB | 8 dB |
| Isolation | O/P-O/P | 80 dB Min. between any two output ports | | | |
| | O/P-I/P | 80 dB Min. between any output port and input port | | | |
| Noise Figures | | 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 Typical < -105 dBm | | | |
| | Out of band | < -80 dBm 10 MHz - 3 GHz | | | |
| Input RF Power | | 20 dBm Absolute maximum | | | |
| MTBF | | > 100,000 Hrs | | | |

| 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 <i>Enables control and monitoring and alarms status</i> |
| Alarms | Dry contact (D-type) & Ethernet (RJ45) for PSU & Amplifier status |

| 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 |

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

| Physical | |
|------------|---------------------------------|
| Dimensions | 1U high x 350mm deep x 19" wide |
| Weight | 4 kg |
| Colour | RAL9003-White (semi-matte) |

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.