



This switching unit is used to switch signals in frequency range DC-31 GHz.

Design

The unit is housed in a 19" subrack with very good RF shielding and consists of the following sub-assemblies:

- 1 relay switch SP2T
- 2 relay switches SP4T
- processor board
- manual control module

All the necessary signal, power supply and earthing connections are provided at the rear.
The mains switch is located on the front panel.

Control

The unit is controlled via a LAN interface.
Other interfaces are possible on request.

Special features

The power supply voltages and the I/O boards are monitored in a processor routine.
The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

| Technical data | | measured a 25° C |
|----------------------------------|---|------------------|
| Model number: | GTS5854 | |
| Item number: | 1200224 | |
| Configuration: | SP8T -built up with SPDT and 2x SP4T | |
| RF specifications | | |
| Impedance (Ohm): | 50 | |
| Frequency range (GHz): | DC-31 GHz min., (40 GHz typ.) | |
| Insertion loss (dB): | 3.0 max., (2.0 dB typ.) | |
| VSWR: | 2.0 : 1 max., (1.5 : 1 typ.) | |
| Isolation (dB): | 50 min. (60 dB typ.) | |
| Input power (dBm): | +30 max. (+27 termination) | |
| Switching time (ms): | 20 max. | |
| Switching cycles (Mill.): | 2 | |
| Switching elements: | Relays – unused ports terminated Latching version | |
| Further specifications | | |
| Control: | LAN | |
| Manual control: | LCD & cursor pushbuttons | |
| RF connectors: | SMA-2.9 mm female | |
| Power supply (Vac, Hz): | 115/230, 50/60 | |
| Connector | 3-pin, with mains filter & fuses | |
| Mains switch: | with integrated lamp | |
| Temperature range (°C): | | |
| Operating | 0...50 | |
| EMC: | in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3 | |
| Dimensions: | | |
| Height (RU) | 2 | |
| Width (inch) | 19 | |
| Depth (mm) | about 380 (without connectors & handles) | |
| Front panel: | | |
| Front view | painted (RAL7021) | |