Switching unit
L-band 64x1
GTS1700

This switching unit is used for the processor controlled switching of satellite IF signals to one receiver or a analyzer in the frequency range 950...2150 MHz.

Design

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

- semiconductor switch SP64T
- I/O board
- processor board
- RS-232 interface
- 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 RS-232 interface.
A manual control module with LC display and cursor pushbuttons could be integrated on the front panel.

Special features

The I/O boards are monitored in a processor routine. The selected crosspoints as well as the I/O fault messages are displayed on the manual control module.
A status string can also be requested at any time via the control interface.
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:	GTS1700
Item number:	(will be assigned after order)
Configuration:	solid-state switches SP64T with internal termination
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	950...2150
Insertion loss (dB):	8.0 max.
VSWR:	1.8 : 1 max.
Isolation (dB):	
On/off	50 min.
In/in	28 min.
Input power (dBm):	+20 max.
Switching time (ms):	20 max.
Switching elements:	solid-state switches
Further specifications	
Control:	RS-232
Manual control:	LCD (4x20) & pushbuttons (3x6)
RF connectors:	SMA female, 50 Ohm
Power supply (Vac, Hz):	195...264, 47...63
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 55022 & EN 50082-1/2
Dimensions:	
Height (RU)	3
Width (inch)	19
Depth (mm)	about 360 (without connectors & handles)
Front panel:	
Front view	painted (RAL7032)

Designed & produced by NOVOTORNIK GmbH

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