L-Band Matrix Model MAS4477

This matrix distributes 8 L-Band signals to 8 receivers in the frequency range 950...2150 MHz without any blocking.

Design

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

- amplifiers with high dynamic range
- matrix boards 8x8
- processor board
- LAN interface
- manual control
- redundant power supply
- DC bias for LNB

All the necessary signal and power supply connections as well as the mains switches are provided at the rear.

Control

The matrix is controlled via a LAN interface.
The integrated webserver allows the unit configuration, shows status information and obtain trouble shooting information.
Crosspoint settings will be possible also.

Special features

The unit is constructed using a modular approach utilising plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data	measured a 25° C
Model number:	MAS4477
Item number:	(will be assigned after order)
Configuration:	8 inputs, 8 outputs non-blocking
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	950...2150
Gain (dB):	1 +/-1.0
Gain flatness (dB):	+/-1.5 typ.
Noise figure (dB):	13.0 max.
VSWR:	1.8 : 1 max.
Intercept point (dBm):	
3rd order	+8 min.
2nd order	+20 min.
Isolation (dB):	
Out/out	40 min.
On/off	45 min. (50 typ.)
Crosstalk	45 min. (50 typ.), worst case
P1 dBc (dBm):	-7
Switching elements:	solid-state
Further specifications	
Control:	LAN
Manual control:	LCD & cursor pushbuttons
RF connectors:	SMA female
Power supply (Vac, Hz):	115/230, 50/60, redundant
Connector	3-pin, with mains filter & fuses
Mains switches:	integrated in the power supplies
DC bias (V/kHz):	14,18/22 each, 300 mA max.
Temperature range (°C):	
Operating	0...50
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
Dimensions:	
Height (RU)	1
Width (inch)	19
Depth (mm)	about 380 (without connectors & handles)
Front panel:	
Front view	painted (RAL7021)

Specifications subject to change without notice, 2013-03-06, dble_mas4477.docx