L-Band Amplifier Model GTV2455

This device will be used for the amplification of one L-band signal in the frequency range 900...2150 MHz.

Design

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

- amplifier
- redundant power supply
- LAN interface

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

Control

The unit is controlled via LAN interface. The integrated webserver allows the unit configuration, shows status information and obtain troubleshooting information.

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:	GTV2455
Item number:	(will be assigned after order)
Configuration:	1 input, 1 output

RF specifications	
Impedance (Ohm):	50 Ohm
Frequency range (MHz):	900...2150
Gain (dB):	20.0 +/-1.0
Gain flatness (dB):	+/-0.5 max.
Noise figure (dB):	9.0 max.
VSWR:	1.5 : 1 max.
Input power (dBm):	7 max.
P1 dBc (dBm):	20 typ., at output

Further specifications	
Control:	LAN
RF connectors:	SMA female, 50 Ohm
Power supply (Vac, Hz):	80...264, 47...63
Connector	3-pin, with mains filter & fuses
Mains switches:	integrated in the power supplies
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)