VHF/UHF Antenna Multicoupler Model GTA2300.8

Antenna multicouplers are used in modern receiving stations and provide distribution of one antenna signal to several receivers without loss and deterioration of the signal quality.

This model distributes one VHF/UHF signal to 8 outputs in the frequency range 20…3000 MHz.

Design

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

- HF amplifier
- 8-way power divider
- redundant power supply units
- LAN interface and webserver for amplifier monitoring

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

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:	GTA2300.8
Item number:	1300088
Configuration:	1 input 8 outputs
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20…3000
Gain (dB):	1+/-2.0
Gain flatness (dB):	+/-2.0 max.
Noise figure (dB):	9.0 max.
Intercept point (dBm):	
3rd order	+15 min.
2nd order	+32 min.
VSWR:	2.0 : 1 max.
Isolation (dB):	
Out/in	28 min.
Out/out	15 min.
Input power (dBm):	
Non-destructive	+10 CW max.
Further specifications	
Control:	LAN
RF connectors:	N female, 50 Ohm
Power supply (Vac, Hz):	80…264, 47…63, redundant
Connector	3-pin, with mains filter and fuses
Mains switches:	integrated in the power supply
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)