VHF/UHF Antenna Multicoupler Model GTA3700

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 two VHF/UHF signal to 4 outputs each 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
- 4-way power divider
- AC power supply
- DC power supply
- LAN interface and webserver for unit 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:	GTA3700
Item number:	1300090
Configuration:	2 channels, each with 1 input, 4 outputs
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20...3000
Gain (dB):	3+/-2.5
Noise figure (dB):	8.0 max.
VSWR:	2.0 : 1 max.
Intercept point (dBm):	
3rd order	+20 min.
2nd order	+40 min.
Isolation (dB):	
Out/in	50 min.
Out/out	33 min.
Input power (dBm):	
Non-destructive	+15 max.
1 dBc	+10 min.
Further specifications	
Control:	LAN
RF connectors:	N female, 50 Ohm
Power supply (Vac, Hz):	80...264, 47...63
Connector	3-pin, with mains filter & fuses
Power supply (Vdc):	18...36
Connector	XLR male 3-pin, with fuse
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)