Broadband Antenna Multicoupler GTA7313.4

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 broadband signal to 4 outputs in the frequency range 20...8000 MHz.

Design

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

- low noise amplifier
- 4-way power divider
- power supply unit

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:	GTA7313.4
Item number:	1300102
Configuration:	1 input 4 outputs
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20...8000 min.
Gain (dB):	0+/-1.0 (average)
Gain flatness (dB):	+/-2.0 max.
Noise figure (dB):	12.0 max. (20...100 MHz) 8.0 max. (above 100 MHz)
VSWR:	
Input	2.0 : 1 max.
Output	1.5 : 1 max.
Intercept point (dBm):	
3rd order	+5 min.
Isolation (dB):	
Out/out	18 min.
Out/in	40 min.
P1 dBc (dBm):	-5 max., 0 typ.
Input power (dBm):	
Non-destructive	+ 5 max.
Further specifications	
RF connectors:	
Input	N female, 50 Ohm
Outputs	SMA female, 50 Ohm
Power supply (Vac,Hz):	80...264, 47...63
Connector	3-pin, with mains filter & fuses
Mains switch:	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)