



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 HF signal to 4 or 8 outputs in the frequency range 0.01...30 MHz.

Design

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

- low noise HF amplifier
- 4- or 8-way power divider
- power supply unit

All the necessary signal, power supply and earthing connections are provided at the rear. The mains switch is located on the front panel.

Special features

The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data		measured a 25° C
Model number:	GTA5030	
Item number:	(will be assigned after order)	
Configuration:	1 input	
GTA5030.4	4 outputs	
GTA5030.8	8 outputs	
RF specifications		
Impedance (Ohm):	50	
Frequency range (MHz):	0.01...30 min.	
Gain (dB):	1 +/- 1.0	
Gain flatness (dB):	+/- 1.0 max.	
Noise figure (dB):	7.5 max.	
Intercept point (dBm):		
3rd order	+30 min.	
2nd order	+60 min.	
VSWR:	1.5 : 1 max.	
Isolation (dB):		
Out/out	25 min.	
Out/in	30 min.	
P1 dBc (dBm):	+8 max.	
Input power (dBm):		
Non-destructive	+15 max.	
Further specifications		
RF connectors:		
Input	N female, 50 Ohm	
Outputs	BNC female, 50 Ohm	
Power supply (Vac,Hz):	115/230, 50/60 (24 Vdc, 110 Vac optional)	
Connector	3-pin, with mains filter & fuses with integrated lamp	
Mains switch:		
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 360 (without connectors & handles)	
Front panel:		
Front view	painted (RAL7021)	