



The three channel antenna multicoupler is used for compact distribution of three independent RF and VHF/UHF signals. Each channel provides 4 or 2 decoupled outputs. The frequency ranges covers 1.5...30 MHz (channel 1), 20...500 MHz (channel 2) and 20...3000 MHz (channel 3).

Design

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

- RF amplifiers
- power divider 2- and 4-way
- 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 plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data		measured a 25° C	
Model number:	GTA0591		
Item number:	(will be assigned after order)		
Configuration:	3 channels, each with		
Channel 1	1 input, 4 outputs		
Channel 2	1 input, 4 outputs		
Channel 3	1 input, 2 outputs		
RF specifications			
Impedance (Ohm):	50		
	Channel 1	Channel 2	
Frequency range (MHz):	1.5...30	20...500	
Gain (dB):	1+/-1.0	1+/-1.0	
Gain flatness (dB):	+/-1.0 max.	+/-1.0 max.	
Noise figure (dB):	8.5 max.	9.0 max.	
Intercept point (dBm):			
3rd order	+40 min.	+25 min.	
2nd order	+90 min.	+35 min.	
VSWR:	1.5 : 1 max.	2.0 : 1 max.	
Isolation (dB):			
Out/in	30 min.	25 min.	
Out/out	30 min.	25 min.	
	Channel 3		
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	+12 min.		
2nd order	+22 min.		
VSWR:	2.0 : 1 max.		
Isolation (dB):			
Out/in	30 min.		
Out/out	15 min.		
Further specifications			
RF connectors:	N female, 50 Ohm		
Power supply (Vac, Hz):	195...264/47...63		
Connector	3-pin, with mains filter & fuses		
Mains switch:	with integrated lamp		
Temperature range (°C):			
Operating	0...50		
EMC:	in accordance to Eur. standard EN 55022 & EN 50082-1/2		
Dimensions:			
Height (RU)	1		
Width (inch)	19		
Depth (mm)	about 360 (without connectors & handles)		
Front panel:	painted (RAL7032)		