

20-1000MHz 16Way 1U High Isolation Multicoupler “MC-UHF611A-HI”

The MC-HF6116, is a UHF 16 way multi coupler. The unit has high isolation performance solution for coupling up to 16UHF receivers to a single antenna. Using a state of the art high linearity amplifier, exceptional linearity performance is achieved. The unit is provided in a 19" 1U high rack mounted case. Health monitoring is provided. Local LED indicates 'STATUS', In addition 16 rear mounted LEDs show which output(s) are affected.



Specification:

Parameter	Limits
Freq:	20-1000Mhz
Gain:	0 – 2dB (Average in Band)
Gain Variation:	+/- 1dB max
Noise Figure:	11dB max. (typ 10dB)
Number of inputs:	1
Number of outputs:	16
Input Output Impedance	50 Ohms
Output Intercept (OPIP):-	3rd Order > +20dBm. 2nd order > +28dBm P1dB > +3dBm
VSWR INput 50 Ohm	2:1 max. (Return Loss >10dB)
VSWR output 50 Ohm	2:1 max. (Return Loss >10dB)
Isolation - Output to output: Output to input:	>36dB min >60dB min
Max. input signal CW	20dBm cont.
Power:	Mains 110/220V AC (Selectable). <20W

Alarms/Protection CCT

Alarms – The multicoupler has a 'on board' health monitoring circuit which monitors the operation of the active amplifier. Should a fault occur the 'Status' LED on the front panel will change from 'Green' to 'Red'. In addition there are 16 independent LEDs on the rear panel which are green when ok, and off when fail.

There are two failure modes:

Critical – Is when a single point failure affects all outputs. In this case the front panel alarm LED will be Red and all rear Green LED's will be extinguished.

Non-Critical – when a single output only is affected the front panel alarm LED will be RED and only the output(s) affected have an extinguished LED on the rear panel. In a non-critical alarm condition the 'good' outputs (Green) can still be used.

Electrical:

AC Mains Power Connector -	3 Pin IEC male connector.
AC Mains Switch -	Illuminating Mains Switch is front panel located
AC Mains Fuse -	Rear panel mounted
DC Fuse -	Front panel mounted
110/220AC Selector -	Rear Panel switch

Mechanical

Connectors: I/P O/P	N type Female BNC Female Power/Alarm DC connector is Molex , Mini fit Jr.
Dimensions:	19", 1U rack mount,

Environmental

Temp range:	operating: 0C to +50C storage: -20C to +70C
Humidity	Operating 10% to 90% (Non condensing) Storage 5% to 95% (Non condensing)
EMI	FCC Part 15

Cooling

Unit dissipates 20W	The case is vented top and bottom to facilitate forced air cooling
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Options: -

