

The HPMC-HF116A, is a UHF 16 way multicoupler. 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

Freq:		20-1000Mhz	
Gain:		0 – 2dB (Average in Band)	
Gain Variation	:	+/- 1dB max	
Noise Figure:		11dB max. (typ 10dB)	
Number of inp	outs:	1	
Number of ou	tputs:	16	
Input Output	Impedance	50 Ohm	
Output Interce	ept (OPIP):-		
3rd Order		> +18dBm. (Typ +20dBm)	
2nd order		> +28dBm. (Typ +35dBm)	
P1dB		> +3dBm	
VSWR input	500hm:	2:1 max. (Return Loss >10dB)	
VSWR output	500hm:	2:1 max. (Return Loss > 10dB)	
Isolation -	Output to output:	>36dB min	
	Output to input:	>50dB min	
Max, input signal CW		20dBm cont.	
Power:		Mains 110/220V AC (Auto Selec	

Limits

Mains 110/220V AC (Auto Selectable). <23W

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 <u>all</u> 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 <u>output(s) affected</u> have an extinguished LED on the rear panel. In a non-critical alarm condition the 'good' outputs (Green) can still be used.

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AC Mains Power Connector	-	3 Pin IEC male connector.		
AC Mains Switch	-	Illuminating Mains Switch is front panel located		
AC Mains Fuse	-	1A, Rear panel mounted		
DC Fuse	-	4A, Front panel mounted		
110/220AC +/- 10%, 47-63Hz	-	Automatic		
Mechanical				
Connectors: I/P O/P		1 x N type Female 16 x BNC Female Power/Alarm DC connector is Molex Mini fit 1r		
Dimensions:		19", 1U rack mount x 310 deep including connectors		
<u>Environmental</u>				
Temp range:		Operating: 0C to +50C		
Humidity		Operating 10% to 90% (Non condensing)		
EMI		FCC part 15		
Cooling		Fan assisted cooling, with rear upper and lower exhaust vents. NOTE: Do not block the exhaust vents leave adequate specs of at least 20mm above and below the vents.		
Unit dissipates 20W		The case is vented top and bottom to facilitate forced air cooling		
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