



Model HPMC-UHF116A-HI

20-1000 MHz, 16 Way, 1U, High Isolation Multicoupler



The HPMC-UHF116A-HI, 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.

SPECIFICATIONS

Parameter	Limits
Frequency	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 > +18dBm. (Typ +20dBm) 2nd Order > +28dBm. (Typ +35dBm) 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 >50dB min
Max. input signal CW	20dBm cont.
Power	Mains 110/220V AC (Auto Selectable). <23W

(HPMC-UHF116A-HI)

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SPECIFICATIONS

Parameter	Limits
<u>Electrical</u>	
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
<u>Mechanical</u>	
Connectors I/P O/P	N type Female BNC Female Power/Alarm DC connector is Molex , Mini fit Jr.
Dimensions	19", 1U rack mount x 310 deep including connectors.
<u>Environmental</u>	
Temp range	operating: -10C to +50C storage: -20C to +70C
Humidity	Operating 10% to 90% (Non condensing) Storage 5% to 95% (Non condensing)
EMI	FCC Part 15
<u>Cooling</u>	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	Case is vented top and bottom requiring airflow

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.

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