



# Model HPMC-UHF116A

30-1000 MHz, 16 Way, 1U, High Performance Multicoupler



The HPMC-HF116A, is a UHF 16 way multi-coupler. Offering, high 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', an opto-coupler output allows remote indication of 'STATUS'. Lighting protection is incorporated.

## SPECIFICATIONS

Parameter	Limits
Frequency	30-1000 MHz
Gain	1dB nominal (+/- 1dB)
Gain Variation	+/- 1.5dB max
Noise Figure	6.5dB max. (typ 4.8dB)
Number of inputs	1
Number of outputs	16
Output Intercept (OPIP)	
UHF Measured at 2 tones 0dBm, 7Mhz and 11Mhz	3rd Order at 150Mhz, Typ 20dBm (+18dBmin) 2nd Order at 180Mhz, >+28dBm min.
VSWR input 50 Ohm	2:1 max. (Return Loss >10dB)
VSWR output 50 Ohm	2:1 max. (Return Loss >10dB)

(HPMC-UHF116A)

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## SPECIFICATIONS

Parameter	Limits
Isolation - Output to output - Output to input	>20dB min >25dB min
Max. input signal CW	20dBm cont
Lightning Protection	2kV 1.6ns rise time, 50ns duration
Power	15-24V DC <0.25A. (Internally regulated)
<b><u>Mechanical</u></b>	
Connectors	RF SMA Female Power/Alarm DC connector is Molex , Mini fit Jr.
Dimensions	19", 1U rack mount,
<b><u>Environmental</u></b>	
Temp range	operating: -10C to +55C storage: -20C to +70C

## 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’ and an opto-coupler (transistor) is activated to provide remote alarm operation. The remote alarm pins are available on the rear panel (mini fit jnr) connector.

## Options:

1 – Fitment of a mains Power supply to operate of 240V 50Hz AC mains.

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