



Model HPMC-HF116A

1.5-30 MHz, 16 Way, 1U, High Performance Multicoupler



The HPMC-HF116A, is a HF 16 way multi-coupler. Offering, high performance solution for coupling up to 16 HF receivers to a single antenna. Using a unique feedback circuit, 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. Optional Filter may be fitted to reject LF/MF and VHF 88-108 Broadcast services.

SPECIFICATIONS

Parameter	Limits
Frequency	1.5-30 Mhz
Gain	0dB nominal (+/- 0.5dB)
Gain Variation	+/- 1dB max (Typ +/-0.3dB)
Noise Figure	6dB max. (typ 4.8dB)
Number of inputs	1
Number of outputs	16
Output Intercept (OPIP)	
HF Measured at 2 tones 0dBm, 7Mhz and 11Mhz	3rd Order at 15Mhz, >35dBm min . (typ +37dBm) 2nd order at 18Mhz, >+70dBm min. (typ +76dBm)
LF Measured at 2 tones 0dBm, 1.9Mhz and 2.3Mhz	3rd Order at 2.7Mhz, >35dBm min . (typ +37dBm) 2nd order at 4.2Mhz, >+72dBm min. (typ +78dBm)
VSWR input 50 Ohm	1.5:1 max. (Return Loss >14dB)
VSWR output 50 Ohm	1.3:1 max. (Return Loss >17.7dB)

(HPMC-HF116A)

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Parameter	Limits
Isolation - Output to output - Output to input	>30dB min (typically 35-40dB) >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)
<u>Mechanical</u>	
Connectors	RF BNC sockets Power/Alarm DC connector is Molex , Mini fit Jr.
Dimensions	19", 1U rack mount,
<u>Environmental</u>	
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.

The unique design of the amplifier ensures that levels on the RF output are always <+20dBm ensuring that the following RX’s are not damaged by high level RF.

Options:

- 1 - The unit can be preceded by a HF band pass filter unit such as the FL003. This can help with strong out of band Broadcast signals.
- 2 – Fitment of a mains Power supply to operate of 240V 50Hz AC mains.

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