



Model HPMC 001

1.5 – 30 MHz, 8 Way, High Performance Multicoupler



The HPMC001, is a HF 8 way multi-coupler. Offering a low cost, high performance solution for coupling up to 8 HF receivers to a single antenna. Using a transformer lossless feedback circuit, exceptional linearity performance is achieved. The unit is provided in a machined natural finish aluminum housing. Mounting behind a 1U panel is suggested alternatively it could be wall mounted. Health monitoring is provided. Local LED indicates 'STATUS', an opto-coupler output allows remote indication of 'STATUS'. Lighting protection is incorporated.

SPECIFICATIONS

Parameter	Limit
Frequency	1.8 – 30 MHz
Gain	1.5 dB nominal
Gain Variation	+/- 0.5 dB max
Noise Figure	5 dB max (typ 4 dB)
Number of Inputs	1
Number of Outputs	8
Output Intercept OPIP	-
HF Measured at 2 tones 0 dBm, 7 MHz and 11 MHz	3rd Order at 15Mhz, >35dBm min . (typ +37dBm) 2nd order at 18Mhz, >+70dBm min. (typ +76dBm)
LF Measured at 2 tones 0 dBm, 1.9 MHz and 2.3 MHz	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)
Isolation - Output to output Output to input	>30dB min (typically 35-40dB) >22dB min
Max. input signal CW	20dBm cont

(HPMC 001)

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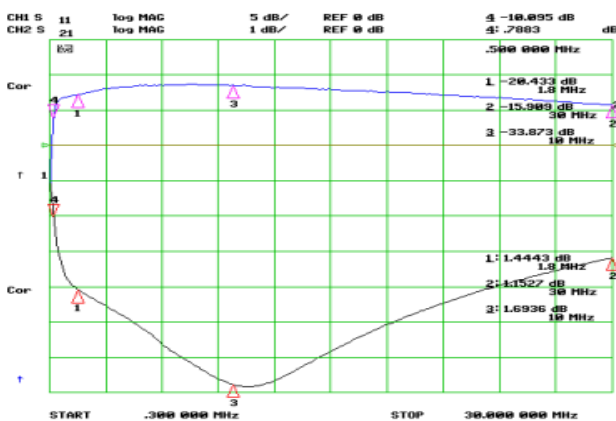
1.5 – 30 MHz, 8 Way, High Performance Multicoupler

SPECIFICATIONS

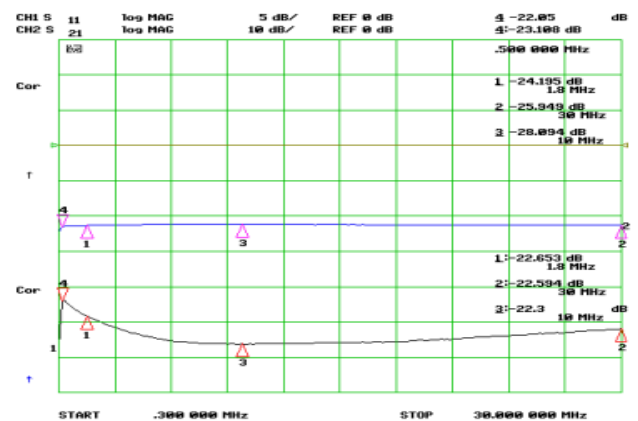
Parameter	Limit
Lightning Protection	2kV 1.6ns rise time, 50ns duration
Power	15-24V DC <0.1A. (Internally regulated)
Connectors	RF BNC sockets power DC connector is Molex , Mini fit Jr.
Dimensions	Approx 8" x 3" x 1" (excludes BNC)
Temp range	operating: -10C to +55C storage: -20C to +70C

Options: - The unit can be preceded by a HF band pass filter unit such as the FLO03. This can help with strong out of band Broadcast signals.

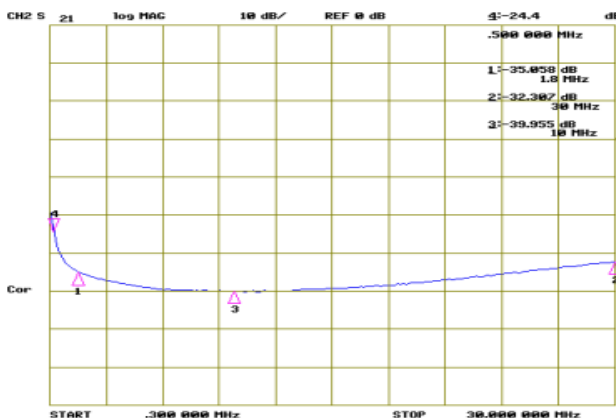
Plot (Typical)



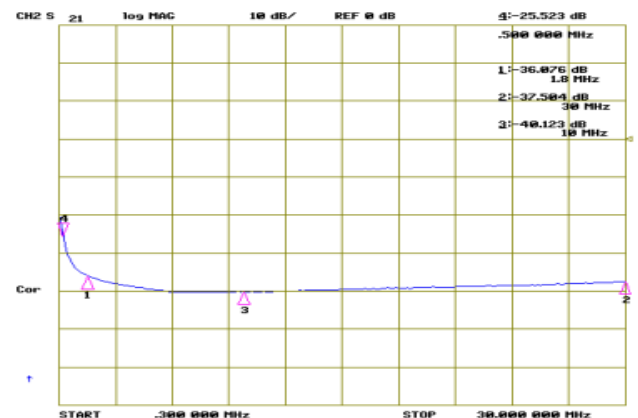
Input Ret Loss and Gain



Output Ret Loss and Rev. Isolation



Output isolation 1 - 2



Output isolation 1 - 8

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