



HPMC-001A

2-30MHz 8Way 1U

High Performance Multicoupler

The HPMC-001A, is a HF 8 way multi-coupler. It is a high isolation solution for coupling up to 8 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'. Lightning protection is incorporated.

Optional Filter may be fitted to reject LF/MF and VHF 88-108 Broadcast services.



Specification:

| <u>Parameter</u> | <u>Limits</u> |
|--|--|
| Freq: | 1.5-30Mhz |
| Gain: | 1.5dB nominal |
| Gain Variation: | +/- 0.5dB max |
| Noise Figure: | 5dB max. (typ 4.3 B) |
| Number of inputs: | 1 |
| Number of outputs: | 8 |
| Output Intercept (OPIP):- | |
| Measured at 2 tones +5dBm, 7Mhz and 11Mhz | 3rd Order at 15Mhz, >33dBm min . (typ +35dBm) 2nd order at 18Mhz, >+70dBm min. (typ +75dBm) |
| P1dB | i/p >16dB. |
| VSWR input 50ohm: | 1.5:1 max. (Return Loss >14dB) |
| VSWR output 50Ohm | 1.3:1 max. (Return Loss >17.7dB) |
| Isolation - Output to output: | >30 min |
| Output to input: | >22dB min |
| Max. input signal CW | 20dBm cont. |
| Lightning Protection | 2kV 1.6ns rise time, 50ns duration |
| Power: | OPT1. Mains 115/230V, set internally, max power 10W OPT2. DC 24V. |

