

30-1000MHz 16Way 1U High Performance Multicoupler "MC-UHF0116A"

The MC-UHF0116A, is a UHF 16 way multicoupler. 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.



(Picture is of a similar product)

Specification:

| Parameter | Limits |
|---|--|
| Freq: | 30-1000Mhz |
| 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, 70Mhz and 110Mhz | 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) |
| 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) |

Specification (cont.):

| Parameter | Limits |
|---------------|---|
| Mechanical | |
| Connectors: | RF SMA Female Power/Alarm DC connector is Molex , Mini fit Jr. |
| Dimensions: | 19", 1U rack mount, |
| Environmental | |
| 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: -

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

