

RR1110 HF Multicoupler

The RR1110 is a series of broadband HF multicoupler units providing wide dynamic range performance in a compact unit for use in receiving systems where frequency coverage from 1 MHz to 40MHz is required.

Optimum coupling is provided between a single antenna input and up to 16 outputs. The performance is characterised by low noise figure, high intermodulation product suppression and good isolation. Either standard AC mains or +24V DC supply can be used to power the unit.

The modular construction enables a compact design to be achieved with the unit occupying only 1.75" (1U) of vertical space. The unit is suitable for mounting directly into a 19" rack.



| Specification | | Parameter | | |
|----------------------------------|------------------|---|-------|--------|
| Frequency Range | | 1-40MHz minimum | | |
| Gain | | 0dB \pm 1dB (typically 0 \pm 0.3dB) | | |
| Noise Figure | | 7dB maximum | | |
| Number of Inputs | | 1 | | |
| Number of Outputs | | 4, 8 or 16. Others on request | | |
| Output Intercept Point | | 4-way | 8-way | 16-way |
| | 2nd Order (OIP2) | 80dBm | 80dBm | 80dBm |
| | 3rd Order (OIP3) | 38dBm | 38dBm | 37dBm |
| VSWR Input/Output (50 Ω) | | 1.5: 1 maximum | | |
| Isolation | O/P to I/P | 25dB minimum | | |
| | O/P to O/P | 35dB minimum | | |
| Maximum Input Signal | CW | 40dBm | | |
| | Pulse | 2kV, 1.6 μ s rise-time, 50 μ s duration | | |
| Power Supply | | 100 - 240V, 50-60Hz | | |
| Connectors | RF Input | N-type socket | | |
| | RF Output | BNC-type socket | | |
| | Power (ac) | IEC Plug | | |
| | Alarm Output | AXR 4-pin plug | | |
| Dimensions | Width | 483mm | | |
| | Depth | 350mm | | |
| | Height | 44mm (1U) | | |
| Temperature | Operating | -10°C to + 50°C | | |
| | Storage | -30°C to +70°C | | |
| Options | | Alternative number of outputs, on request | | |
| | | +24V DC power supply | | |
| | | Higher performance OIP's, on request | | |
| | | Alternative Noise Figure | | |
| | | Alternative Gain | | |
| | | Alternative Input/Output Connectors | | |