

Wideband UHF Diversity Antenna Multicoupler



- Four slots for up to 16 audio channels in 1RU
- Use with DCR822, DSR, DSR4, UC411 and SR units
- 11-18 VDC
- High quality RF distro covers Blocks 470-26 and Bands A1, B1 and C1.

The purpose of wideband architecture is to provide the flexibility needed to deal with a changing RF environment, and for mobile productions that cover broad geographic areas. The UMCWBD-L provides a mechanical rack mount with power and RF signal distribution for four diversity compact receivers in a single rack space. The wideband low version covers frequency blocks from 470 through 26. The UMCWBD-L can hold a DCR822 and slot receivers in any combination.

The RF multicoupler preserves the sensitivity and overload performance of the finest receivers. Selective filtering in the front end attenuates RF signals above and below the passband to suppress intermodulation and noise. Following the filters is a low noise RF amplifier with gain matched to compensate for the losses in the splitter that follows.

A precision strip line splitter/isolator divides the RF signal into four isolated signals preventing spurious RF coupling between receivers. The splitter/isolator is termination independent which prevents mismatched or disconnected RF outputs from affecting the other receivers.

The assembly is powered from an external source of 11 to 18 VDC with individual auto-reset fuses for each receiver in the RF/power distribution module. This architecture eliminates ground loops and AC hum that can occur when the receiver outputs are connected to other audio equipment operating from a different AC source.

Specifications

RF Gain:	0.5 to 1.5dB
Bandwidth:	470 to 692 MHz
RF Outputs:	Eight outputs, 50 Ohm, BNC
Isolation between outputs:	25 dB or greater Any output can be open, shorted or terminated without affecting other outputs.
Splitter type:	Wilkinson 1/4 wave
Filtering:	Two pole ceramic filter per antenna
Noise figure:	3.5dB
Third Order Intercept:	+27 dBm (input or output)
Power Input:	+11 to +18VDC
Power Consumption:	2 amps max.
Antenna Connectors:	50 ohm BNC
Short Circuit Protection:	Auto-reset thermal fuses
Construction:	Machined aluminum panels and housings.
Dimensions:	19" wide, 1.75" high, 6.5" deep
Weight:	5 lbs. (typical) including 4 receivers

Specifications subject to change without notice.

