

Tower-Top Receiver Multicoupler

Electrical Specifications

Frequency Band	300-512 MHz
Number of Channels	3-4
Passband Range	3-10 MHz
Number of Resonators	5
Isolation Rx-Rx (Min.)	23+ dB
Amplifier Gain (Typ.)	+30 dB
Amplifier Bias Voltage	13.6 VDC
Amplifier Noise Figure	2.8 dB
Amplifier Current Draw	200 mA
Amplifier Type	Bipolar
1dB Comp. Point	+21 dBm
System NF (Typ.)	5.0 dB
System Voltage	100-240 VAC (Optional 12 / 24 / 48 VDC)
VSWR @ Resonance (Max.)	1.25:1
Impedance (Nom.)	50 Ω
RF Connectors (I/O)	N Female / BNC Female

Mechanical Specifications

Finish	Gray Paint (MC Panel), Painted Steel (NEMA Enclosure)
Rack Mount	19" EIA
NEMA Box Size (HxWxD)	18.75" x 12" x 8" (476 x 305 x 227 mm)
Tray Size (HxWxD)	3.5" x 19" x 10" (89 x 483 x 254 mm)
Ship Weight	40 lbs (18.1 kg)

Environmental Specifications

Operating Temp. Range	-22 to 140 °F (-30 to +60 °C)
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EMR Receiver Multicouplers allow several receivers to share a common antenna. These units include a preselector, amplifier, power supply and power divider which effectively amplify a filtered band of frequencies to individual receivers. The power divider provides a minimum of 23 dB of port-to-port isolation preventing signal mixing even at minimal channel separation.

