95108-1/DH-5

Tower-Top Receiver Multicoupler

Electrical Specifications

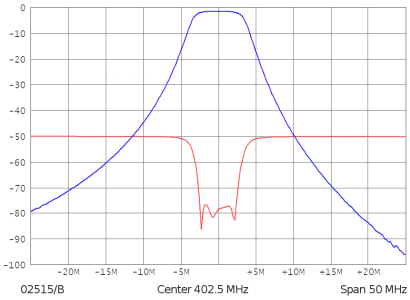
Frequency Band	300-512 MHz
Number of Channels	8
Number of Resonators	5
VSWR @ Resonance (Max.)	1.25:1
Isolation Rx-Rx (Min.)	23+ dB
System Voltage	100-240 VAC (Optional 12 / 24 / 48 VDC)
Passband Range	3-4 MHz
System NF (Typ.)	4.0 dB
Amplifier Gain (Max.)	40 dB
Amplifier Noise Figure	3.0 dB
Amplifier IP3	+49 dBm (w/o limiter)
Amplifier Current Draw	600 mA
Amplifier Type	Bipolar, 2 Stage
Amplifier Bypass on Failure	Stage 1, 2, Both
Amplifier Bias Voltage	13.6 VDC
Amplifier Gain Adjust	1 dB steps
Impedance (Nom.)	50 Ω
RF Connectors (I/O)	N Female / BNC Female
Optional Upgrades	Stainless Steel Enclosure, Amplifier Bypass, Test Port (requires 2nd coaxial run up tower)

Mechanical Specifications

Finish	Gray Paint (MC Panel), Painted Steel (NEMA Enclosure)
Rack Mount	19" EIA
NEMA Box Size (HxWxD)	22.25" x 16.5" x 7.5" (566 x 420 x 191 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)





EMR Tower Top Receiver Multicouplers allow several receivers to share a common antenna in situations where a reduction in line loss between the antenna and multicoupler is required. These units include a preselector and amplifier within a NEMA enclosure mounted on the tower. A cable run connects the NEMA box to a power distribution panel located at the base station. The power divider provides a minimum of 23 dB of port-to-port isolation preventing signal mixing even at minimal channel separation.

Product Features

- Increase coverage range by reducing line loss between multicoupler and antenna.
- NEMA-4 tower enclosure for weather and corrosion resistance.
- All necessary wiring, hardware and cabling included.
- 5 year standard warranty.
- **Optional upgrades include**: Amplifier bypass, Stainless Steel Enclosure, Test Port (requires 2nd coaxial run up tower).

All product specifications subject to change without notice.

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17431 N. 25th Avenue Phoenix, Arizona 85023 - Toll Free: (800) 796-2875 - Fax: (623) 582-9499 - Email: sales@emrcorp.com