850621

Uni-Directional Amplifier

Electrical Specifications

Frequency Band	406-512 MHz
RF Connectors	N Female
Impedance (Nom.)	50 Ω
Passband Width	≤ 1.5 MHz
Amplifier Gain (Typ.)	72 dB
System Gain (Typ.)	60 dB
System Output Power	Note 1
Amplifier Noise Figure	3.0 dB
System NF (Typ.)	Note 2
IP3	+50 dBm
VSWR (Max.)	1.35:1
Amplifier Bias Voltage	13.6 VDC
System Voltage	115 VAC (Optional 220 VAC, 12 / 24 / 48 VDC)
UPS Battery Backup	Optional Upgrade
Amplifier Output Power (Max.)	+37 dBm
FCC Classification	Class B Booster
Power Control PA Setpoint	+37 dBm
Power Control Dynamic Range	+37 dBm

Mechanical Specifications

Finish	Red
Enclosure Type	NEMA 4
Overall Size (HxWxD)	18.5" x 13" x 7.25" (470 x 330 x 184 mm)
Net Weight	25 lbs (11.3 kg)

Environmental Specifications

Operating Temp. Range	-22 to 140 °F (-30 to +60 °C)
Operating Humidity Range	0-90% non-condensing

EMR Uni-Directional Amplifiers (UDAs) provide a one way link (either uplink or downlink) inclusive of filtering and amplification of paging or base transmit signals into buildings, tunnels or areas that are shaded from adequate RF signal coverage, of portable transmit signals out. In addition to the UDA, other devices needed for a distribution system include transmission line, power splitters, hybrid & directional couplers, donor antenna, and Distributed Antenna System (DAS) antennas. Suitable for coaxial or radiating cable DAS. The choice of distribution method depends on the nature of the structure in which signal enhancement is required.

Optional System Upgrades

- Fiber Optic DAS
- Alarm & Monitoring
- Battery Backup 12, 24 hour
- Higher gain

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Notes:

Note 1: System output power is a function of the number of carriers incident on the system, the signal level of these carrier s to the signal enhancement system, gain of the PA's, and the insertion loss of the filters within the bidirectional system.
Note 2: System Noise Figure is the sum of the amplifier NF and the filter losses prior to the amplifier. The filter losses a re dependent on the passband width for the uplink frequencies, the passband width for the downlink frequencies, and the stop band between them.

WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class B signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of $100,000 for each continuing violation.

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