Bi-Directional Amplifiers 800/900 SMR

- **Replace 48510-N and 48522-N**
- **High Reliability/No Maintenance**
- **Ultrahigh Dynamic Range**
- **Fast and Easy Set Up**
- **Field Repairable**

Preliminary

The 48710 and 48722 are Signal Boosters designed to improve SMR band radio coverage in RF isolated areas. Industry leading fan-less cooling technique results in a MTBF of better then 10 years. AGC circuitry automatically prevents interference from strong signals or oscillation. No tuning and no maintenance required. Set up is fast and easy with the performance monitor (no computer required). Modular components and auto-balance control circuitry make field repair a snap. Additional band limit filtering can be incorporated into these models for custom requirements.

Ordering Information:
48710 800 SMR band Class B Signal Booster
48722 900 SMR band Class B Signal Booster
All models include a performance monitor and 10 ft extension cable.
PM700-10 Monitor with 10 ft cable
PMX-30 30 ft extension cable

SPECIFICATIONS	**Downlink**	**Uplink**
48710 Frequency, MHz	851-869	806-824
48722 Frequency, MHz	935-941	896-901
Gain, no Attenuation,	80 dB	80 dB
Gain Flatness, Typ.	±1.0 dB	± 1.0 dB
Manual Attenuator Range	15 dB	15 dB
Output Limiter Range, automatic*	20 dB	20 dB
Noise Figure, Typ.**	2.0 dB	2.0 dB
Composite Power, Typ.*	+30 dBm	+30 dBm
iDEN, CDMA Typ.	+27 dBm	+27 dBm

* AGC circuitry monitors the output power and reduces the gain to prevent overdrive or oscillation.
* No attenuation and room temperature

Impedance	50 Ohms
VSWR, input, both ports	1.5
Propagation Delay, worse case at band edge	< 1.0 microsecond
Power, 110-240 VAC auto ranging	1.5 A @ 120 VAC
Operating Temperature, ambient	-30 to +50° C
Connectors, RF	N Female
Size L X W X D,wall mount, 40 lbs	13.5 X 18.0 X 7.3 (34.3 x 45.7 x 18.5 cm)
	Similar to Nema 3R

Diagnostics: Power and Fault LEDs plus 15 pin diagnostics port.
Alarms for all active component modules plus overdrive and over temperature
Output DCV for AGC level and Output detectors, Uplink and Downlink, and Remote Shutdown
Hand held performance monitor provides LED indications from the diagnostics port.

FCC ID: Pending **IC CANADA**: Pending

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