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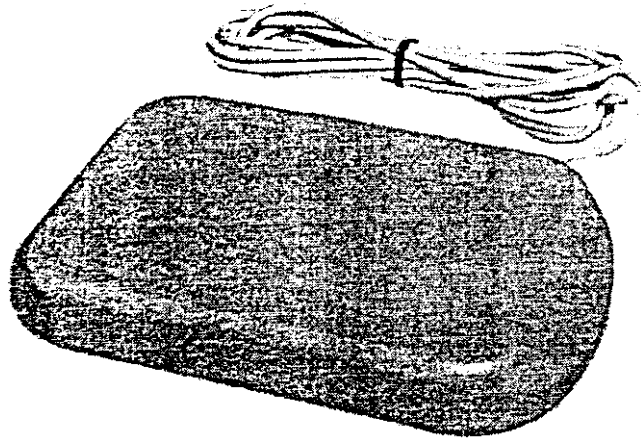
# MICROAMP50

## BI-DIRECTIONAL AMPLIFIER FOR SMALL AREA INDOOR COVERAGE

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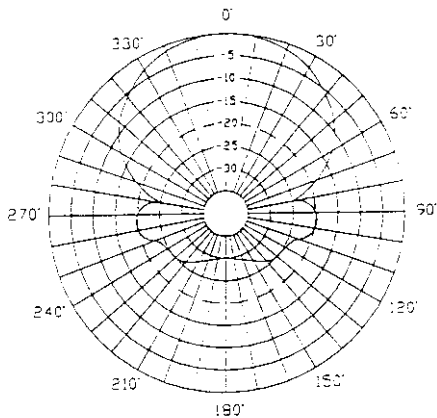
The MicroAmp50 is a high-performance bi-directional amplifier and integrated AC power supply. It is a cost-effective solution specifically designed for small area indoor coverage and is driven by an external donor antenna. The MicroAmp50 comes with either a built-in antenna or external antenna port for maximum flexibility in coverage shaping.

- Built-in overload protection
- Minimum environmental impact
- Trouble free installation and service
- Multiple passbands available
- Supports multiple bands:
  - LMR
  - Cellular
  - TACS
- Supports all technologies:
  - Analog
  - CDMA
  - TDMA
  - IDEN
  - GSM

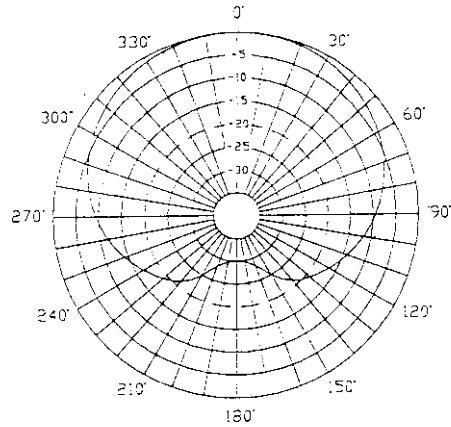




### INTEGRATED ANTENNA RADIATION PATTERNS



Vertical Plane

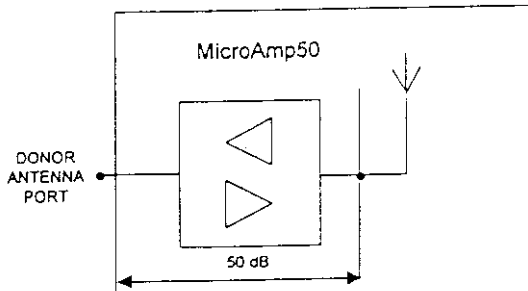


Horizontal Plane



BI-DIRECTIONAL AMPLIFIER				
		TPA 750	TPA 850	TPA 950
Dimensions		195 x 335 x 35mm (plastic case) 240 x 200 x 36mm (metal case)		
RF Connection		TNC		
Bi-directional Amplifier Nominal Gain		50 dB minimum performance (uplink an downlink)		
Standard Frequency Band	UL DL	806-824 MHz 851-869 MHz	824-849 MHz 869-894 MHz	890-915 MHz 935-960 MHz
Optional Frequency Band		Any SFB from 5 to 20 MHz	Any SFB from 5 to 25 MHz	Any SFB from 5 to 25 MHz
Spurious Emissions		Meets FCC -13 dBm limits	Meets FCC -13 dBm limits Meets IS-95 spec. -45 dBc @ fc ±750 kHz	-36 dBm typ. 30-1000 MHz -30 dBm typ. >1-12.4 GHz
Noise Figure	UL DL	10 dB typ. (12dB max.) 12 dB typ. (14dB max.)		
Output IP3	UL DL	36 dBm min. 22 dBm min.		
P-1dB	UL DL	28 dBm min. 12 dBm min.		
Alarms: This will cause a 20 dB decrease in gain in both the uplink and downlink		Donor antenna disconnected Downlink overload Uplink overload Final uplink Amp current overload		
Internal Radiator		Planar antenna		
Maximum Radiator's Gain		8 dBi ±1 dB		
Radiation Pattern		See drawing		
Weight		Approximately 2Kg		
Power Supply Power Consumption		110/220 VAC universal mains, 50-60 Hz 16VA		
Operating Temperature		-5°/+45°C		
Casing		Indoor, anti-shock fire resistant plastic casing Indoor, anti-shock metal casing		
Fastening		Metal fastening devices (built-in antenna version)		
Installation		Wall mounting, flat or angled		

Built-in Antenna



External Antenna

