

ULTRA BROADBAND LINEAR POWER AMPLIFIER

Electrical Characteristics:

Frequency Range:	800 to 2500 MHz
Output Power:	50 Watts at 1dB compression
Gain @ Rated Power Output:	47 dB minimum
Gain Flatness: (small signal)	±2.0 dB, typically
Input Overdrive:	+10 dB above the 1 dB compression point
Input Signals:	CW, FM, AM, Pulse and Phase Modulation
Noise Figure:	10 dB typical
Class of Operation:	Class A linear
Intermodulation Distortion (IMD)	< -30 dBc typical at 50W PEP
Harmonics:	< -20 dBc
Spurious Signals	-60 dBc
Input VSWR:	2:1
Load VSWR:	Infinity, unconditionally stable
AC Input Voltage:	115/220 VAC, 50/60 Hz, Single Phase

Physical Characteristics:

Input and Output RF connectors:	Type "N" female; front panel mounted
Cooling:	Forced air via integral built-in fans
Dimensions:	
Height	10.5 inches
Depth	26.25 inches
Width	19.0 inches
Total Weight:	90 pounds

Environmental Specifications:

Operating Temperature:	0° to +50° C
Non-Operating Temperature:	- 40° C to +85° C
Humidity:	95% (non-condensing)
Operating Altitude:	10,000 feet
Non-Operating Altitude:	40,000 feet
Shock and Vibration	Normal conditions encountered in over the road truck transportation.

The output power is rated at 50 watts at the 1 dB compression point. Gain is 47 dB minimum with typical two tone intermodulation distortion (IMD) at <-30 dBc (at 50 watts PEP). With the power output reduced, the amplifier is capable of superior IMD characteristics over the full 800 MHz to 2,500 MHz frequency range. The ARD88258-50 is CE compliant, fulfilling all essential safety and compatibility requirements as defined in the European Directives. The protected and filtered AC input of the amplifier automatically adjusts to accept a wide-range prime input power between 100 to 240 VAC, single phase, 50/60Hz. The amplifier measures 10.5 inches high by 19 inches wide by 26.25 inches deep. Operating temperature range is 0 to +50°C.



MODEL ARD88258-50

Features

- Continuous 800 to 2,500 MHz Range
- IEEE-488 Remote Interface Bus
- CE Compliant Device



Model ARD88258-50 is a laboratory-quality, class "A" linear amplifier, which operates over the full 800 MHz to 2,500 MHz frequency range. This versatile amplifier covers all popular wireless communication frequency bands making the ARD88258-50 ideal for use in testing wireless equipment. An integral IEEE-488 interface bus provides fault monitor and control of all amplifier functions.