

Designed for broadband high power linear applications, this amplifier utilizes Silicon RF Power MOSFET devices that provide high gain, wide dynamic range and good linearity. Exceptional performance, long term reliability and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, built in high quality power supply, EMI/RFI filters, machined housings and all qualified components. Each unit undergoes extensive burn-in prior to final test and inspection.

**ELECTRICAL SPECIFICATIONS**

Characteristics	Rating	Limit
Frequency Response	200 – 1000 MHz	Min
Power Output CW	250 Watts	Min
Power Output @ 1 dB comp.	160 Watts	Min
Small Signal Gain	56 dB	Min
Small Signal Gain Flatness	±2.0 dB	Max
Input Overdrive	+10 dBm	Max
Third Order Intercept Point	+59 dBm	Typ
Input/Output VSWR @ 50 ohm	2:1	Max
Harmonics @ 1 dB compression	-20 dBc	Typ
Noise Figure	10 dB	Max
Spurious Signals	-60 dBc	Max
Supply Voltage (single phase)	180 – 260 VAC	Nom
Power Consumption	3000 Watts AC	Max

**MECHANICAL SPECIFICATIONS**

Dimensions (Bench Top)	19"x8.75"x22"	Max
Weight	80 lb.	Max
RF Connectors, Rear std.	Type-N female	
Cooling:	Internal forced-air	

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	0°C to +50°C
Non-operating Temperature	-40°C to +85°C
Relative Humidity	95% without condensation
Altitude	10,000 feet
Shock and Vibration	Normal truck transport

**AVAILABLE OPTIONS**

- Front or Rear Panel Connectors
- Rack Mount or different Case Style
- Rack Mounting Slide
- Extended Temperature Range
- LCD Digital Controller
  - Forward and Reverse Indication
  - VSWR Indication
  - Gain Adjustment
  - Automatic Level Control
  - Standby Mode
  - Fault Indication
- IEEE-488 GPIB or RS232

**CIRCUIT PROTECTIONS**

- Infinite Load VSWR
- RF Input Overdrive
- Thermal Overload