

Designed for broadband high power linear applications, this amplifier utilizes Silicon RF Power Push-Pull MOSFET devices that provide high gain, wide dynamic range, low distortions 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, custom-machined housings and qualified components. Each system undergoes extensive burn-in prior to final test and inspection.

ELECTRICAL SPECIFICATIONS

Characteristics	Rating	Limit
Frequency Response	400 - 1000 MHz	Min
Power Output CW	50 Watts	Min
Power Output @ 1 dB comp.	30 Watts	Min
Small Signal Gain	48 dB	Min
Gain Flatness	±1.5 dB	Max
Third Order Intercept Point	+54 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
Input Signal Format	FM/AM/PM/Pulse/Digital	Nom
Supply Voltage (single phase)	100 – 240 VAC	Nom
Power Consumption	250 Watts AC	Max

APPLICATIONS

EME/RFI susceptibility testing
Laboratory equipment testing
Communication systems
TV transmitter driver
ECM/EW applications

PROTECTIONS

Input Overdrive	+10 dBm	Max
Load VSWR	Infinite @ any angle	Nom
Thermal Overload	85°C shutdown	Max

MECHANICAL SPECIFICATIONS

Dimensions (Standard rack mount)	19"x3.5"x18"
Weight	25 lb.
RF Connectors FCN or RCN option	Type-N female front or rear panel
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

CONTROLS / DIGITAL DISPLAY LCD OPTION

Gain Adjustment Range	25 dB
Forward and Reverse indication	dB or Watts scale
VSWR Indication	2 - 5 dB User programmable response
Automatic Level Control	Fast or Slow ALC selection
Standby Mode	30 dB isolation minimum
Fault Indication	Temperature, VSWR, ALC out of range, Modules Fault, Power Supply voltages
Remote Control	IEEE488.2 or full Duplex RS232