

The HD19486 is suitable for immunity testing, laboratory, and broadband high power linear applications. This rack mount amplifier utilizes push-pull MOSFET power 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, machined housings and all qualified components.



- Solid-state linear design
- Instantaneous ultra broadband
- Small form factor and lightweight
- Standard front panel manual gain adjust
- Suitable for all modulations CW/FM/PM/AM/Pulse/Digital
- 50 Ohm Input/Output impedance
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS @ T=25°C, 50 System

Characteristics	Rating	Min	Typ	Max	Units
Frequency Response	BW	0.15		230	MHz
Power Output CW	P _{sat}	75	100		Watts
Power Output @ 1dB G.C.P	P _{1dB}	50	-		Watts
Power Gain @ 1dB G.C.P	G _{1dB}	48	-		dB
Input Power for Rated Output	P _{in}		0		dBm
Small Signal Gain Flatness	G			±1.5	dB
Gain Adjustment Range	FGA	25	30		dB
Input/Output VSWR @ 50 ohm	S11/S22		2.0:1		-
Noise Figure @ maximum gain	NF		7	10	dB
Harmonics @ 1dB G.C.P (3 rd)	H		-20		dBc
Third Order Intercept Point	IP3		+58		dBm
Spurious Signals	Spur		-70	-60	dBc
Supply Voltage (single phase)	VAC	100		240	VAC
Power Consumption @ Pout = 75W	Pd			400	Watts

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	Tc	0		50	°C
Non-operating Temperature	Tstg	-40		+85	°C
Relative Humidity w/o condensation	RH	95			%
Altitude	Alt	10,000	30,000		Feet
Shock & Vibration	SH / VI		Airborne		-

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions W x H x D	19 x 5.75 x 22	Inch	Typ
Weight	47 lb.	lb.	Max
RF Connectors see options	Type-N female front or rear panel		
Cooling	Built in forced-air system		

PROTECTIONS

Input Overdrive	+10 dBm	Max
Load VSWR @ P1dB G.C.P	Infinite @ any angle & magnitude	Nom
Thermal Overload	85°C shutdown	Max

AVAILABLE OPTIONS

Option	Number	Description	Price
FGA	061	Front panel manual gain adjustment 10 turns	Standard
LCD	062	Touchscreen Digital Display, including Fwd/Rev Power indication (dB or Watt scale), Gain Adjustment, ALC Fast/Slow, On/Off, Standby mode, Fault indication, Rear panel HPIB IEEE-488.2 or Full Duplex RS232 remote interface	3,500
FCN	051	Front Panel Type-N female	N/C
RCN	052	Rear Panel Type-N female	N/C

Available Option Packages: 07, 08, 09, 10

SYSTEM OUTLINE SHOWN WITH OPTION PACKAGE 07

