

Designed for ultra broadband high power linear applications, this amplifier utilizes linear GaAsFET Power devices that provide high gain, wide dynamic range and excellent 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, Aluminum machined housings and qualified components. Each unit undergoes extensive burn-in prior to final test and Q/A.



- Solid-state Class A linear design
- Instantaneous ultra broadband
- Small and lightweight
- Suitable for all modulation types
- 50 Ohm Input/Output impedance
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS @ T=25°C, VDD=+13VDC; 50 System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1000	800-2000	2000	MHz
Power Output CW	Psat	7	8		Watts
Power Output @ 1 dB comp.	P1dB	5	6		Watts
Small Signal Gain	SSG	38			dB
Small Signal Gain Flatness	G _F			±1.5	dB
Input/Output VSWR	S11/S22			2:1	-
Harmonics @ 1 dB compression	H		-25		dBc
Third Order Intercept Point 2 – Tones, Pout=1W Avg., 500KHz spacing	IP3		+48		dBm
Noise Figure	NF		7	10	dB
RF Input Overdrive	OD			+10	dBm
Load VSWR @ P1dB				Infinite	-
Spurious Signals	Spur		-70	-60	dBc
Supply Voltage (single phase)	VAC	100		240	VAC
Power Consumption	AC			150	Watts

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	8.5"x3.5"x16"	Inch	Max
Weight	20.0	lbs.	Max
RF Connectors In/Out	N Female		
Cooling	Built-in forced air system		

HD Communications Corp.

Ronkonkoma, NY USA

Home of RFamplifiers.com

Solid State Broadband High Power Amplifier

HD19258

1000 – 2000 MHz / 7 Watt

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+50	°C
Storage Temperature	Tstg	-40		+85	°C
Relative humidity w/o condensation	RH	95			%
Altitude	ALT	10,000			Feet
Shock	SH	GR-63-CORE 5.3.1			
Vibration	VI	GR-63-CORE 4.4.4			

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