

Designed for broadband high power linear applications, this amplifier utilizes Silicon RF Power GaAsFET 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, EMI/RFI filters, machined housings and qualified components. Each unit undergoes extensive burn-in prior to final test and inspection.

- 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
Operating Voltage	VDD	12	13	15	VDC
Supply Current	IDD			3.0	Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	6.0"x2.15"x0.72"	Inch	Max
Weight	1.0	lb.	Max
RF Connectors In/Out	SMA female		
DC Connectors	Feed Thru		
Cooling	External Heatsink		

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	T _c	0		+50	°C
Storage Temperature	T _{stg}	-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			

HD Communications Corp.

Ronkonkoma, NY USA

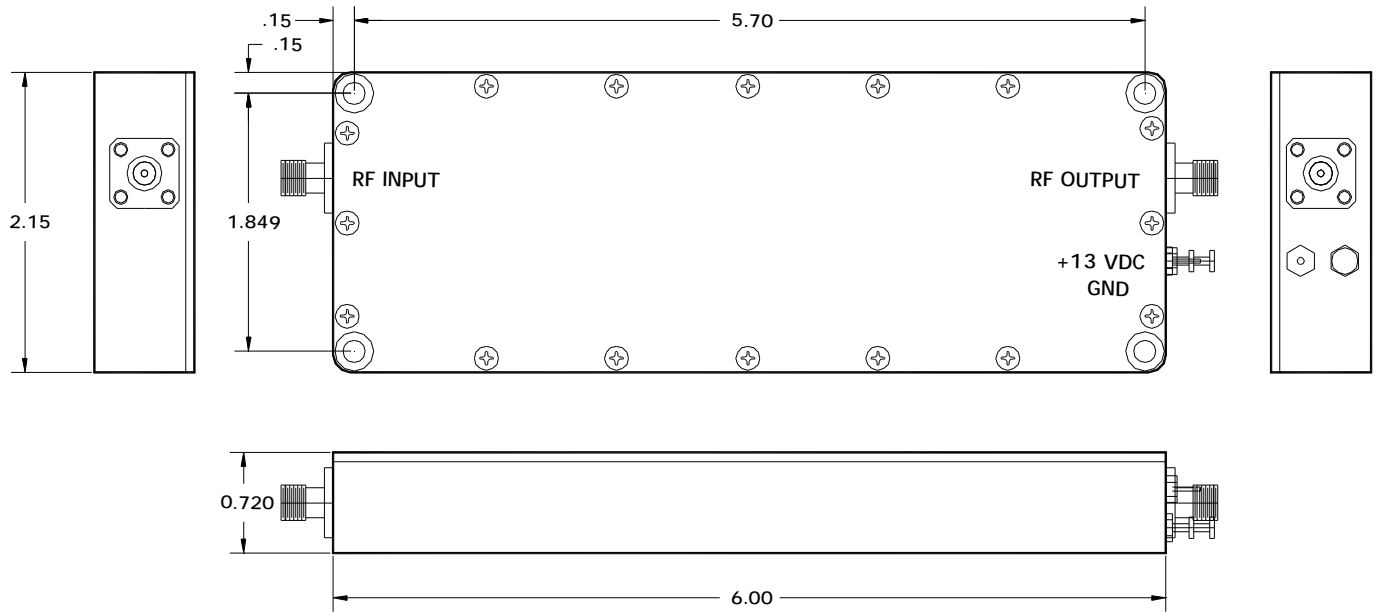
Home of RF Amplifiers.com

Solid State Broadband High Power Amplifier

HD14980

1000 – 2000 MHz / 7 Watt

OUTLINE DRAWING SHOWN WITHOUT HEATSINK



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