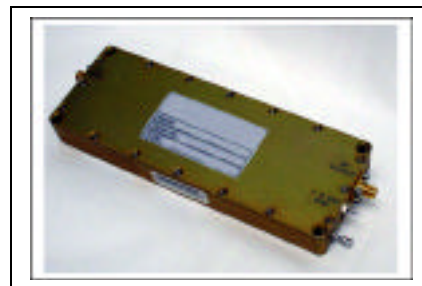


The HD19340 is suitable for high power broadband and band specific linear applications. This amplifier is utilizing HD Communications Corp.'s advanced GaAsFET technology that provide high gain, wide dynamic range, low distortions and excellent linearity. Exceptional performance, long term reliability, and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, built in high efficiency sequence regulator, EMI/RFI filters, machined housing, and qualified components



- Solid-state class A linear design
- Instantaneous ultra broadband
- Excellent Phase Linearity and Group Delay Characteristics
- Small and lightweight
- Suitable for all modulations CW/FM/PM/AM/Pulse/Digital
- 50 Ohm Input/Output impedance
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS VDD = +13VDC, Temp = 25°C, 50 system

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	800		2500	MHz
Power Output CW	P _{sat}	12	15		Watts
Output Power @ 1dB G.C.P	P _{1dB}	10			Watts
Power Gain @ 1dB G.C.P	G _{1dB}	42			dB
Input Power for Rated Pout	P _{in}		0		dBm
Small Signal Gain Flatness	G			±1.5	dB
Input/Output VSWR @ 50	S11/S22			2:1	-
Noise Figure	NF			10	dB
Third Order Intercept Point	IP3		+52		dBm
Harmonics @ P1dB G.C.P.	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDD	12	13	15	Volts
Current Consumption	I _{dd}		6	7	Amps

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	8.5 x 3.1 x 0.72	Inch	Max
Weight	1.0	lb.	Max
RF Connectors Input/Output	SMA female		
Cooling	External heatsink and forced air		

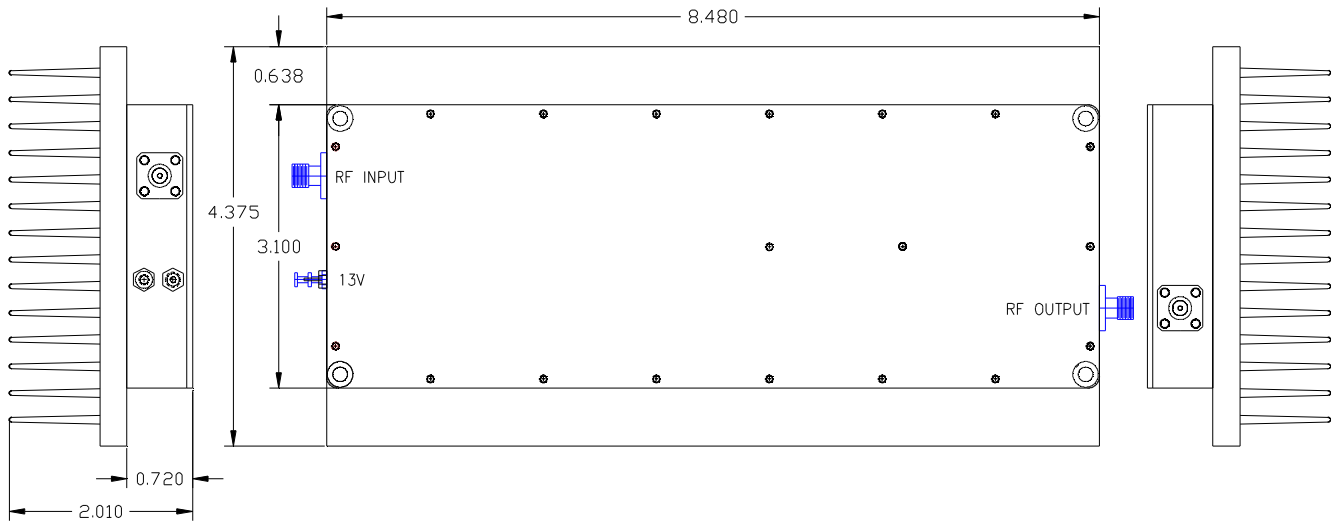
ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	T _c	0		+50	°C
Non-operating Temperature	T _{stg}	-40		+85	°C
Relative humidity w/o condensation	RH	95			%
Altitude	ALT	10,000	40,000		Feet
Shock and Vibration	SH / VI		Airborne		

PROTECTIONS

Input Overdrive	+10 dBm	Max
Load VSWR	Infinite @ all load phase and amplitude	Nom
Thermal Overload	85°C shutdown	Max

OUTLINE DRAWING SHOWN WITH OPTIONAL HEATSINK



OUTLINE DRAWING

