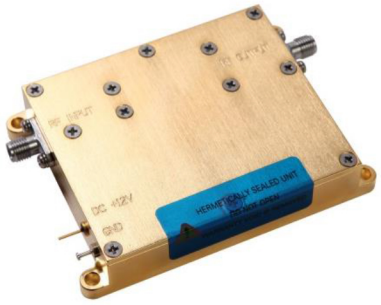
HD31824
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Class AB GaAs design
Instantaneous ultra-wide Bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2 - 20 GHz	
Power Output Psat	5 Watt Min	
Small Signal Gain	37 dB Min	
Power Gain Flatness	4 dB p-p Max	
Input Return Loss	10 dB Typ	
Harmonics	-20 dBc Typ	At rated Pout
Noise Figure	10 dB Max	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	22 VDC Nom	
Current Consumption	2.5 Amp Max	At rated Pout
Max Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +70 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	90 x 90 x 22 mm	Excluding connectors
Weight	-	
RF Connectors In/Out	SMA female	Cover Flange
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

PIN ASSIGNMENT

Pin	Function	Description
1	DC Voltage	+22VDC
2	GND	GND

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfamplifiers.com www.rfcomp.com sales@hdcom.com