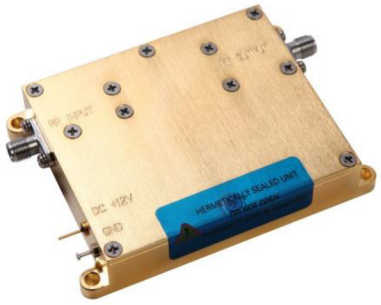
HD31809
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.



FEATURES

Class AB GaAs design
Instantaneous ultra wide Bandwidth
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2 - 18 GHz	
Power Output Psat	3 Watt Min / 4 - 5 Watt Typ	CW
Power Output P1dB GCP	1 Watt Min / 2 Watt Typ	CW
Small Signal Gain	38 dB Min	
Power Gain Flatness	4 dB p-p Max	
Input Return Loss	>10 dB Typ	
Harmonics	>20 dBc	At rated Pout
Noise Figure	10 dB Max	
Spurious	>60 dBc	Non Harmonics
Operating Voltage	28 VDC Nom	
Current Consumption	2 Amp Max / 1.6 Amp Typ	At rated Pout
Max Input Power	+8 dBm Max	Without damage
Load VSWR	5 : 1 Max	

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	100 X 90 X 22 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female	Cover Flange
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

PIN ASSIGNMENT

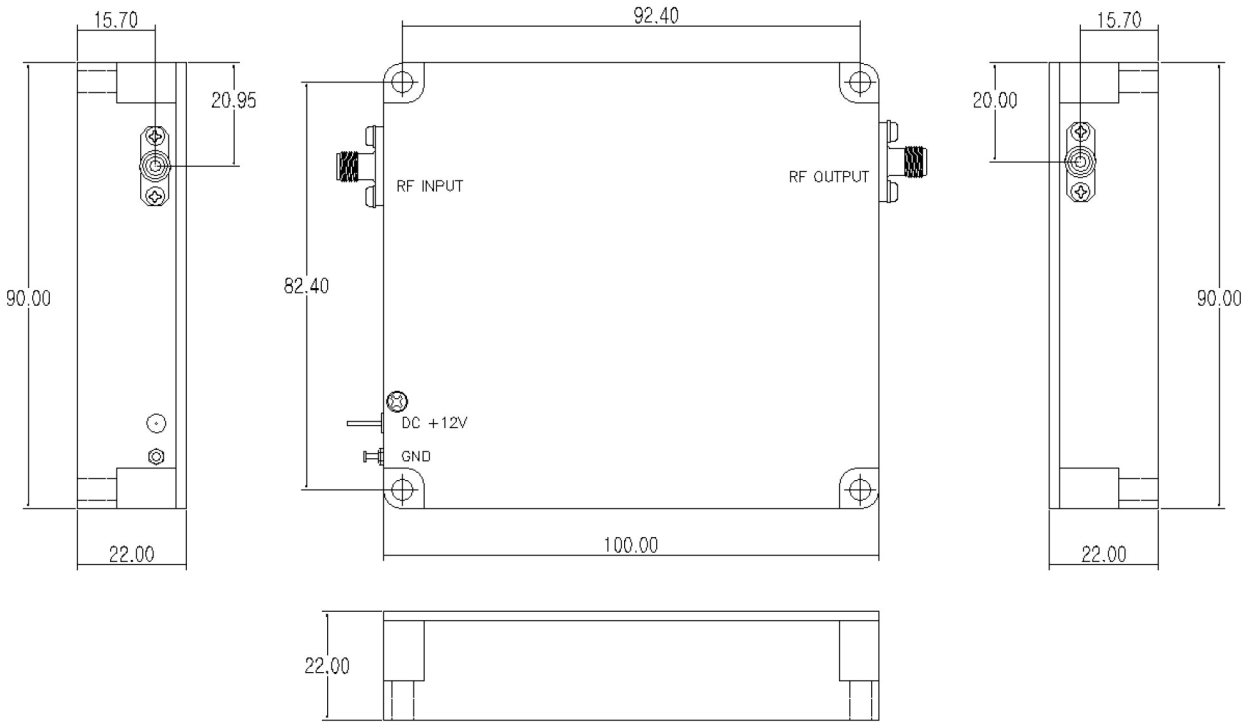
Pin	Function	Description
1	DC Voltage	+28VDC
2	GND	GND

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OUTLINE DRAWING



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