HD31150
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output Past	1.0 Watt Min	CW
Small Signal Gain	20 dB Min	
Power Gain Flatness	3 dB p-p Max	
Input / Output Return Loss	< 10 dB	
Harmonics	>20 dBc	At rated Pout
Noise Figure	5.0 dB Max	
3rd Order Intercept	34 dBm Typ	Design Goal
Spurious	>60 dBc	Non Harmonics
Operating Voltage	9.0 VDC ±0.2 V	
Current Consumption	1.5 Amp Max	At rated Pout
Max Input Power	+20 dBm Max	Without damage
Load VSWR	5 : 1 Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	70 X 60 X 15mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female	Cover Flange
DC Power / Interface Connector		
Cooling	External Heatsink	Forced air required

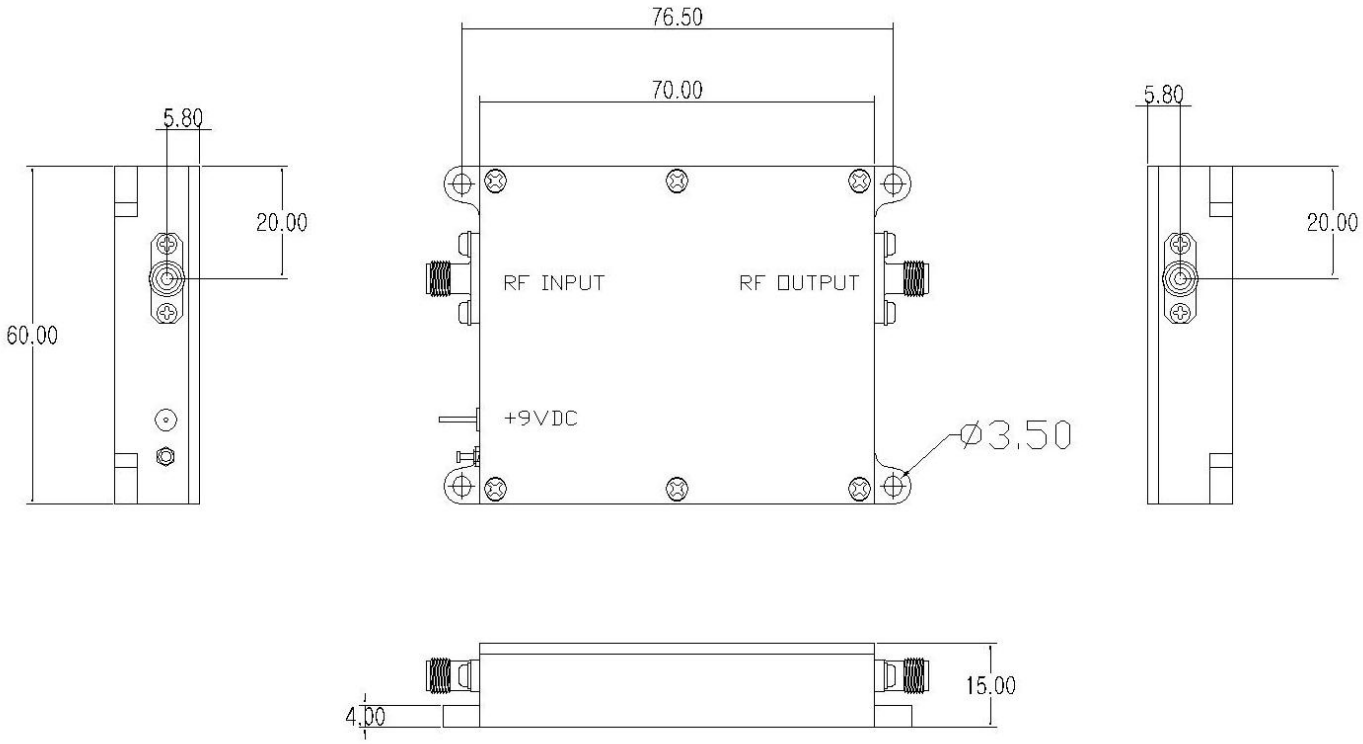
PIN ASSIGNMENT

Pin	Function	Description
1	DC Voltage	+9VDC
2	GND	GND

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OUTLINE DRAWING



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