HD31931
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Saturated Output Power Level	27 dBm Min	
Saturated Input Drive Level	0 to +5 dBm	
Power Gain Flatness	2 dB p-p Max	
Gain Variation Over Temperature	±1.5 dB Max	At rated Pout
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	-10 dBc Max	At rated Pout
Noise Figure	6 dB Max	
VSWR Input / Output	2 : 1 Nom	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	9 VDC Nom	
Current Consumption	1.0 Amp Max	At rated Pout
Max Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute @ rated Pout
Phase Tracking	±5 Deg Max	
Gain Tracking	±1.0 dB Max	
AM/PM	3 Deg/dB Max	Any Freq. across bandwidth

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	65 x 25 x 15 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female	Cover Flange
DC Power	Feed Thru	
Mounting Holes	4 Nos., M 2.5 through holes	
Sealing	Hermetic	

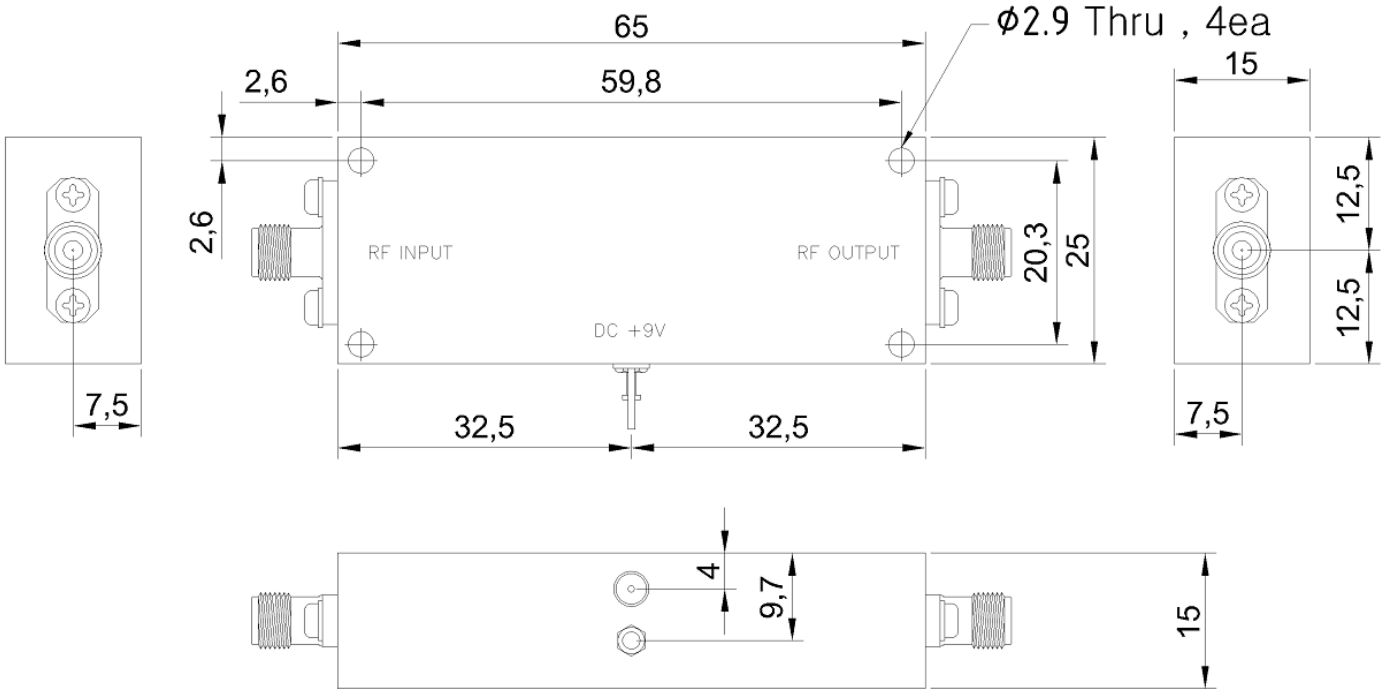
PIN ASSIGNMENT

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

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OUTLINE DRAWING



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