HD31257
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Small form factor and light weight
Built-in protection circuits
High reliability and ruggedness
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ELECTRICAL SPECIFICATIONS : 50Ω, 25?C

Parameter	Specification	Notes
Operating Frequency Range	800 - 3000 MHz	
Power Output @ Psat	2 Watt Min	CW
Output Power @ P1dB	1.5 Watt Min	CW
Power Gain	33 dB Min	0dBm or less for rated Pout
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	23dBm/Tone, Δ = 1MHz
Harmonics 2^{nd}/ 3^{rd}	-15 dBc / -20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	12 - 13 VDC	
Current Consumption	1 Amp Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[1]	

1 MIL Spec available for quotation.

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	80 x 50 x 16.8 mm	Excluding connectors
Weight	150 gr.	
RF Connectors In/Out	SMA female	
DC Power	Feed Thru	
Cooling	External Heatsink	

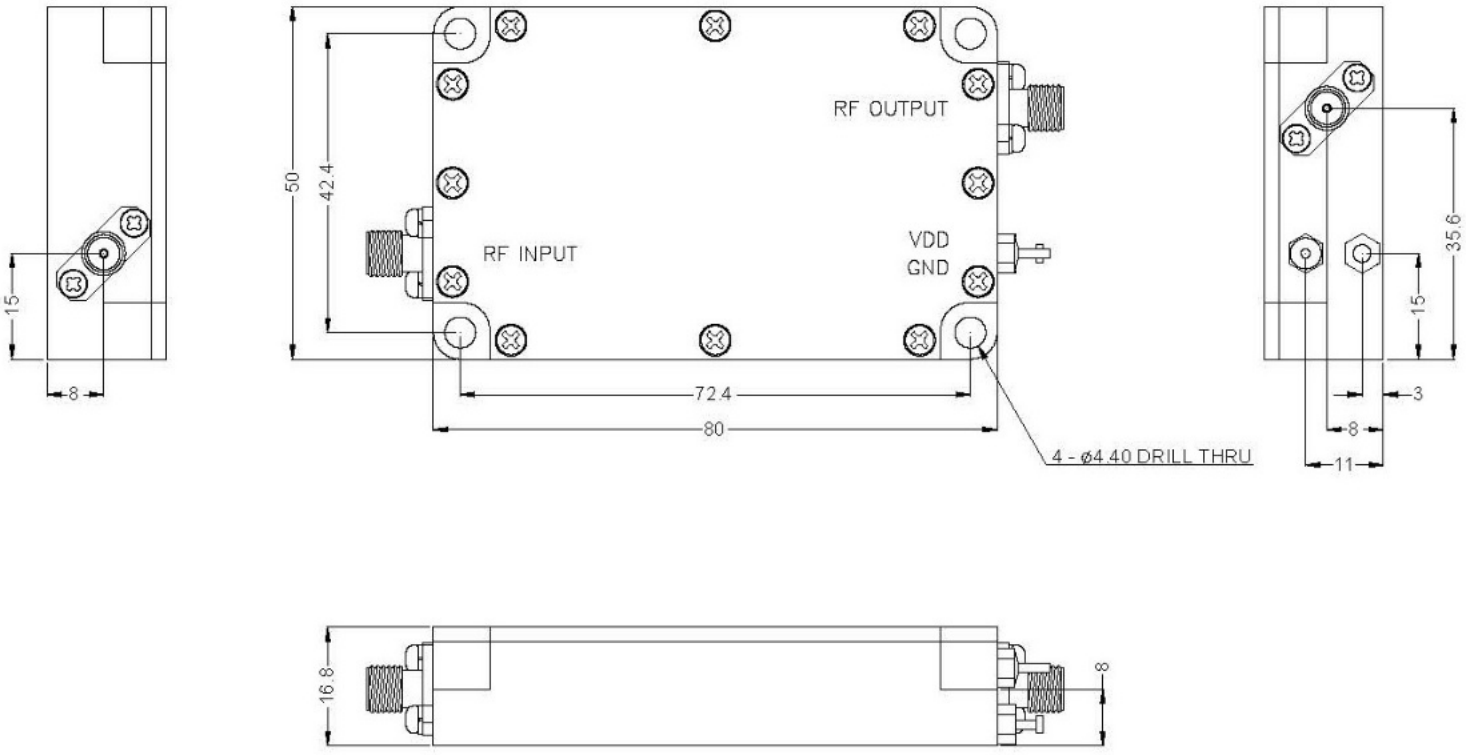
PIN ASSIGNMENT

Pin	Function	Description
1	VDD	+12VDC
2	GND	Ground

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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

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OUTLINE DRAWING



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