HD31924
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	500 - 4200 MHz	
Power Output P1dB	27 dBm Min	CW
Power Gain	30 dB Min	
Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics 2^{nd} / 3rd	-15 dBc / -20 dBc Typ	At rated Pout
2-Tone Intermodulation (IMD)	-30 dBc Typ	17dBm/Tone, Δ = 1MHz
Non Harmonics Spurious	-60 dBc Max	
Operating Voltage	15 VDC Nom	
Current Consumption	0.8 Amp Max	At rated Pout
Max Input Power	+5 dBm	Without damage
Load VSWR Protection	∞ : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	60 x 50 x 27 mm	
Weight	TBD	Typical Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	Feed-Thru	
Cooling	External Heatsink	Forced air required

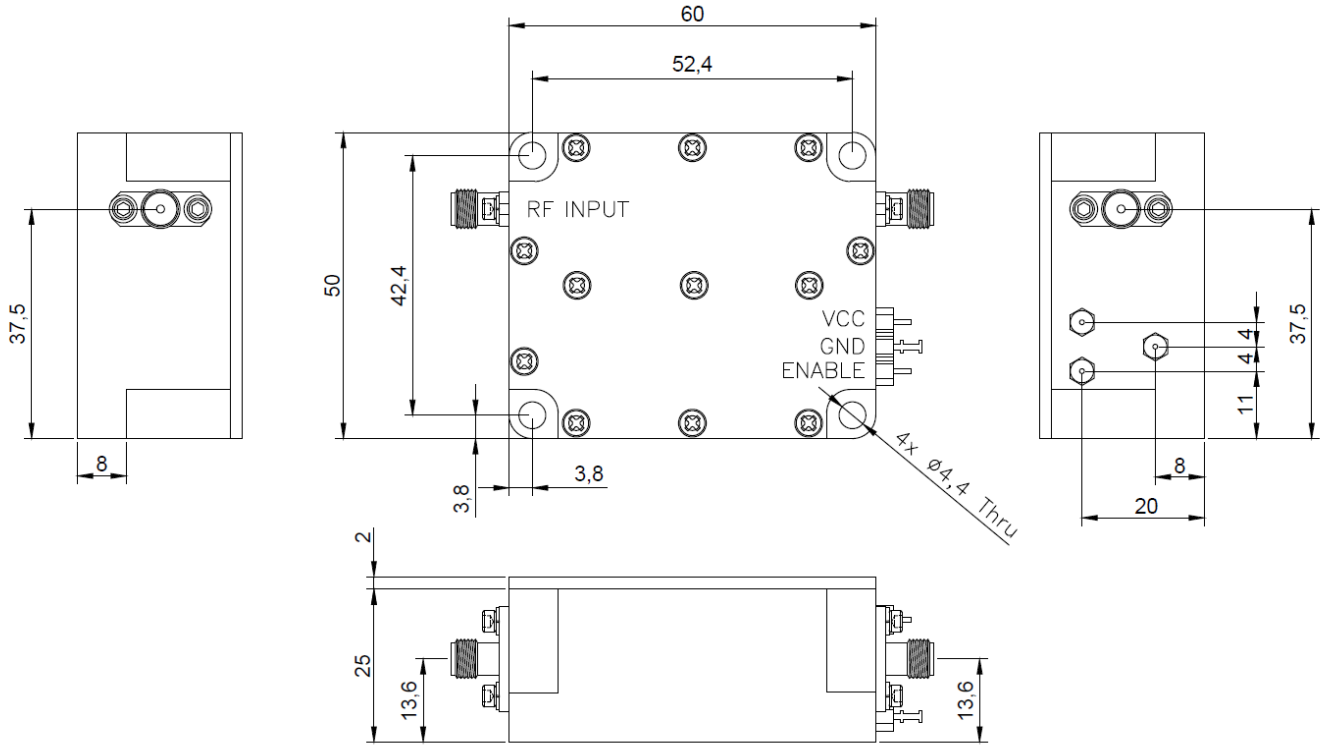
FEED THRU PIN ASSIGNMENT

Pin	Function	Description
1	SHUTDOWN	TTL
2	VDD	15VDC
3	GND	Ground

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OUTLINE DRAWING



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