HD31149
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN hybrid design
Instantaneous C & X bands coverage
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 12.0 GHz	
Power Output Psat	40 Watt Min	CW
Power Gain	46 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	-10 dB Max	
Harmonics @ Rated Pout (2nd & 3rd)	-30 dBc Typ	2nd: 6.0 - 6.5 GHz: 13dBc Min
Non Harmonics Spurious	-60 dBc Max	
Noise Figure	10 dB Max	
Operating Voltage	30 VDC Nom	
Current Consumption	<9 Amp Typ / 10 Amp Max	At rated Pout
Input Power Protection	+2 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute @ rated Pout

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	140 x 130 x 25 mm	Excluding connectors
Weight	950 gr.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

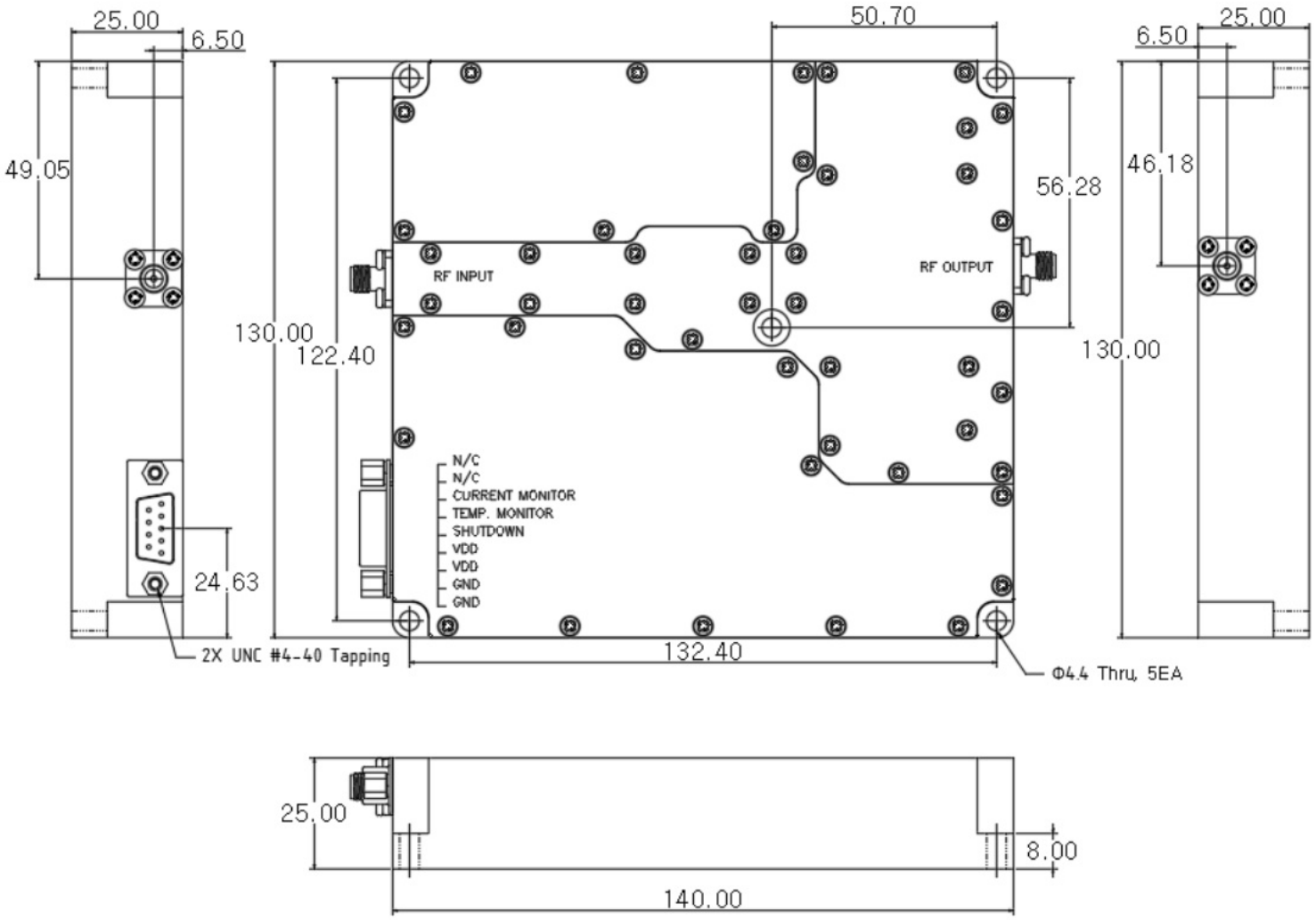
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/A	N/A
2	N/A	N/A
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	30VDC
A2	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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