HD31157
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 ~ 20.0 GHz	
Power Output @ P1dB GCP	20 Watt Min	CW
Power Gain	43 dB Min	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>30 dBc Typ	At rated Pout
Spurious	>60 dBc	
Operating Voltage	32 VDC ±0.5V	
Current Consumption	10 Amp Typ.	At rated Pout
Max Input Power	8 dBm	Without damage
Load VSWR Protection	∞ : 1	

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 140 x 27 mm	Excluding Connectors
Weight	TBD	Typical Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

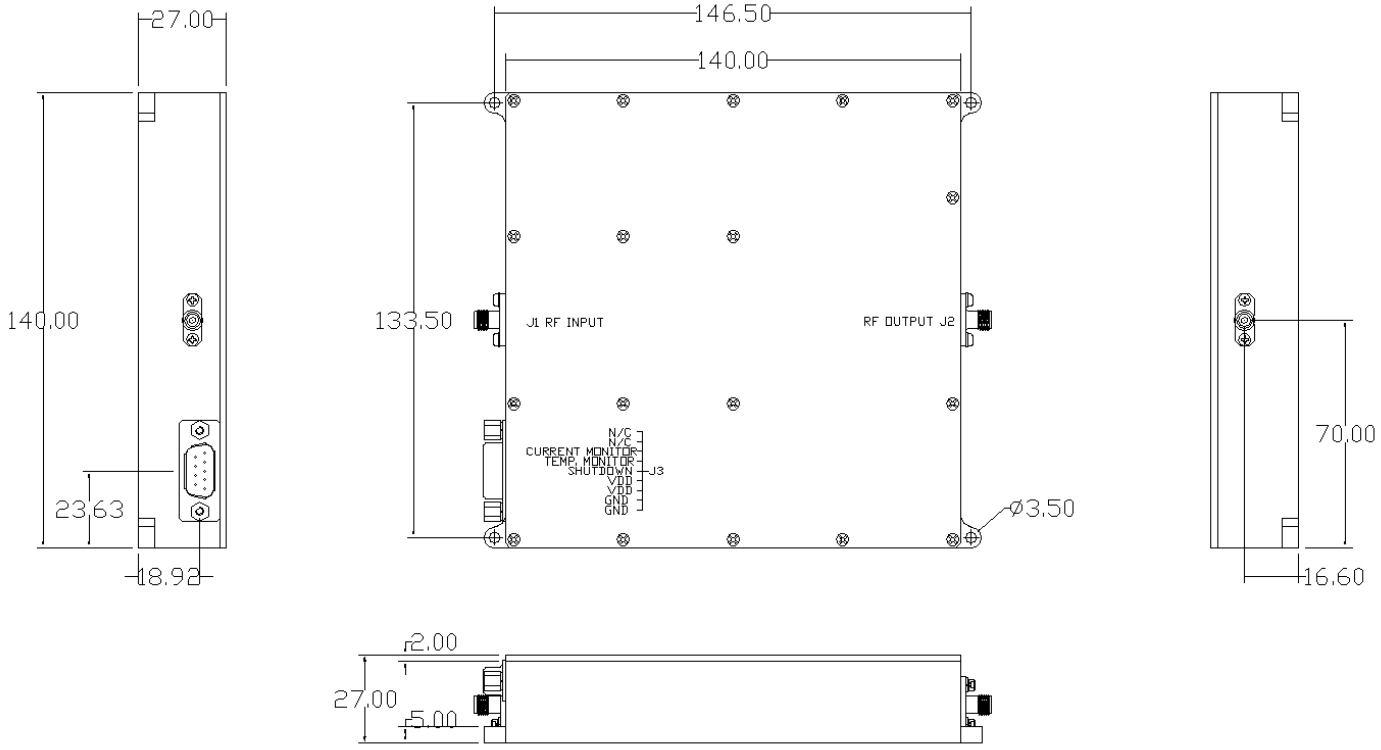
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	Current Sensor	Analog
4	Temp Sensor	Analog
5	Shutdown	TTL
6,7	VDD	32 VDC
8,9	GND	Ground

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
sales@rfamplifiers.com www.rfamplifiers.com

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OUTLINE DRAWING



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