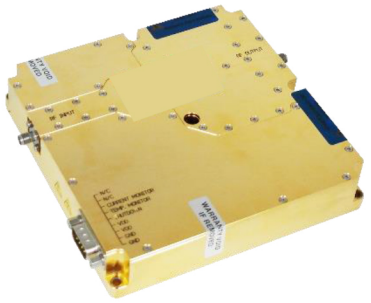
HD31155
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for 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	
Power Output @ Psat	30 Watt Min	CW
Nominal Input Power for Rated Pout	0 dBm	
Power Output @ P1dB	10 Watt Typ	CW
Power Gain	45 dB Min	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>20 dBc Typ	At rated Pout
Spurious	>60 dBc	
Operating Voltage	32 VDC Nom	
Current Consumption	15 Amp Max / 13 Amp Typ	At rated Pout
Max Input Power Protection	+3 dBm	10 Sec without damage
Load VSWR Protection	5 : 1 Max	1 Min @ rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +60 °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	2.85 Kg.	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

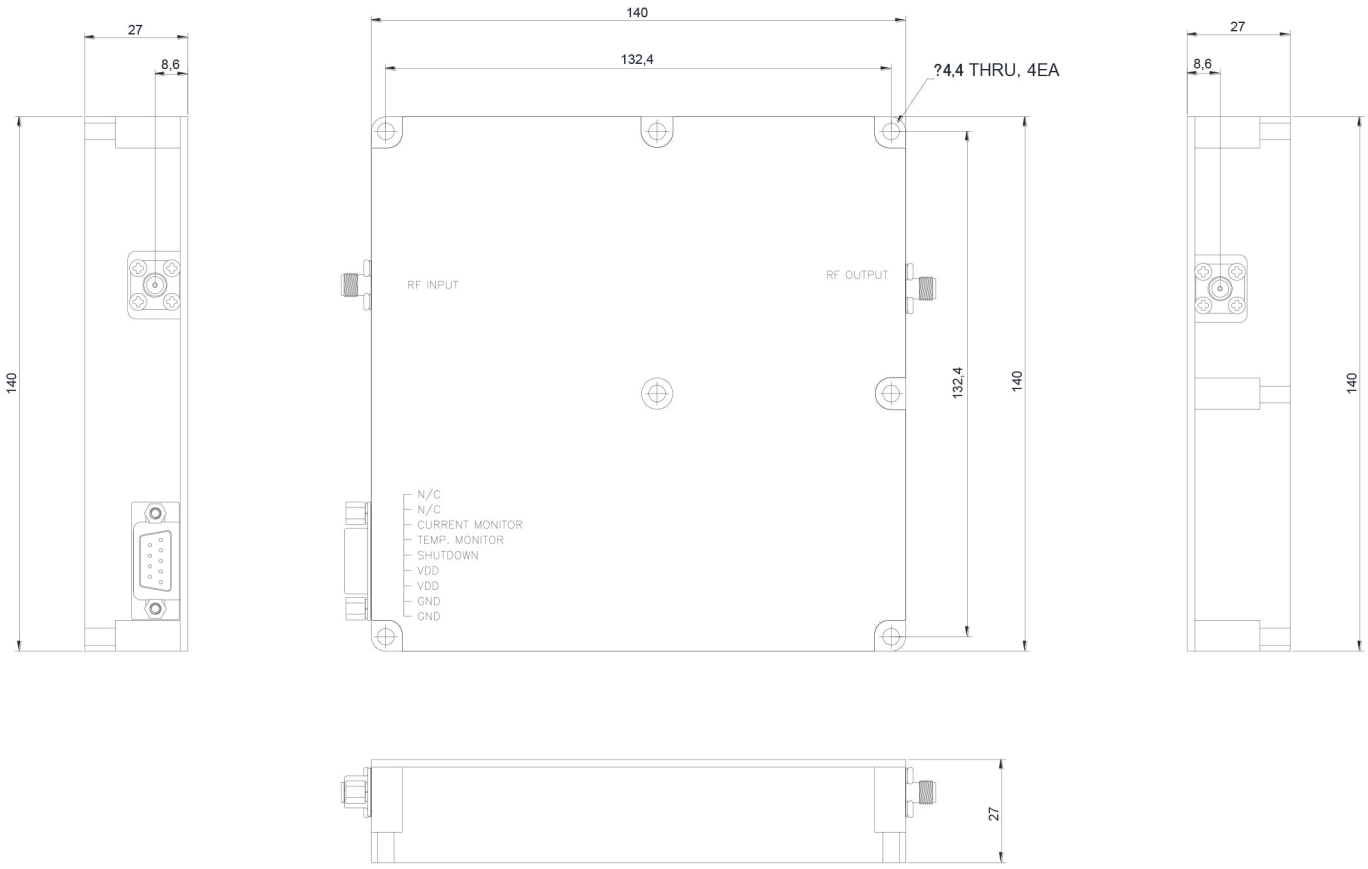
Pin	Function	Description
1	N/C	N/C
2	N/C	N/C
3	Current Sensor	I_D@20mV/100mA Typ
4	Temp Sensor	V_T@10mV/°C + 500mV Typ
5	Shutdown	Enable = TTL “Low” or 0V / Disable = TTL “High” (<3.2V)
6, 7	VDD	32VDC
8, 9	GND	Ground

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OUTLINE DRAWING



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