HD30398
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	12.6 ± 0.2 GHz	
Power Output Psat	100 Watt Min	CW
Power Gain	50 dB Min	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>30 dBc Typ	At rated Pout
Spurious	>60 dBc	Non-Harmonics
Operating Voltage	42 VDC Nom	
Current Consumption	20 Amp Max	At rated Pout
Max Input Power	8 dBm	Without damage
Load VSWR Protection	∞ : 1	O/P Isolator

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	240 x 180 x 30 mm	Excluding Connectors
Weight	1.3 Kg	Typical Weight
RF Connectors In/Out	SMA-F / Wave Guide or Type N-F	Waveguide is standard.
DC Power / Interface Connector	Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

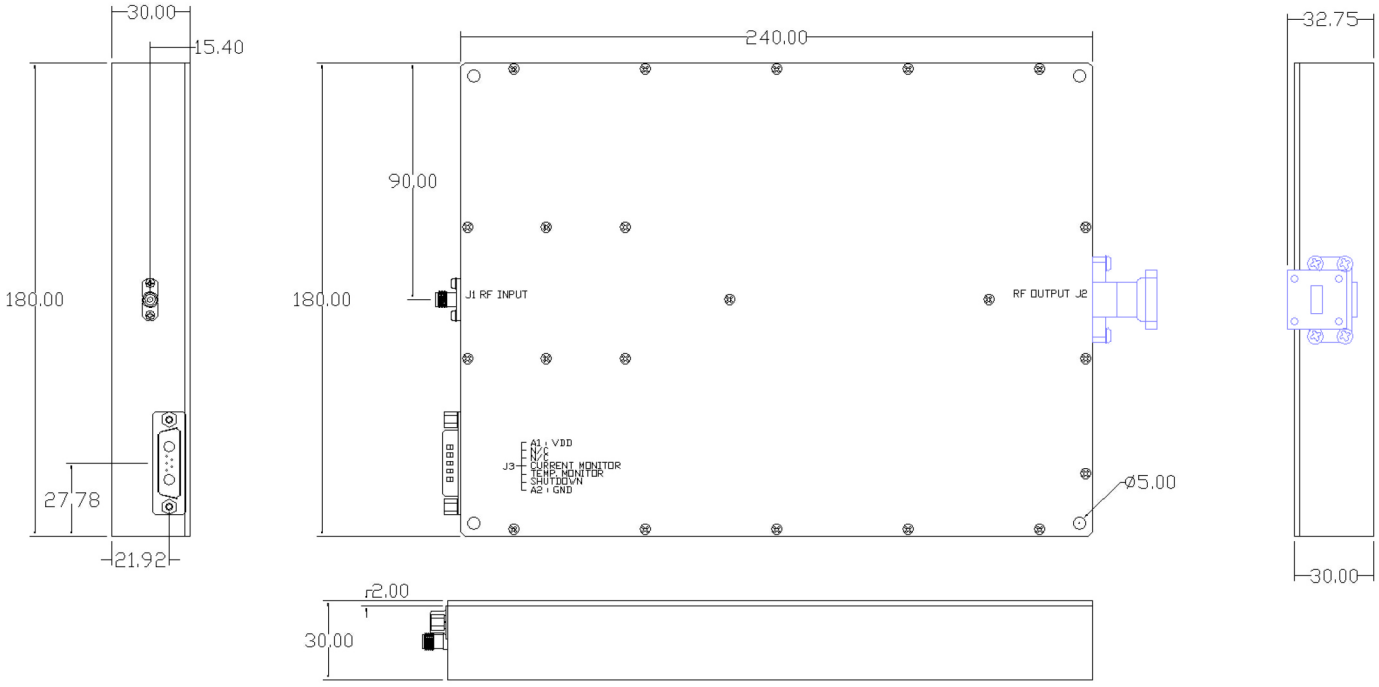
Pin	Function	Description
1	FWD	N/C
2	REV	N/C
3	CURRENT NONITOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	42VDC
A2	GND	Ground

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OUTLINE DRAWING



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