AMP5022
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

X-Band Solid-State High Power Booster Module
Class AB linear GaN design
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	10 GHz ± 0.2 GHz	
Power Output Psat	40 Watt Min	CW
Power Gain	12 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	32 VDC Nom	
Current Consumption	8.5 Amp Max	At rated Pout
Load VSWR Protection	10 : 1	O/P Isolator

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 x27 mm	Excluding Connectors
Weight		
RF Connectors In/Out	SMA-F	
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
6, 7	VDD	32VDC
8, 9	GND	Ground

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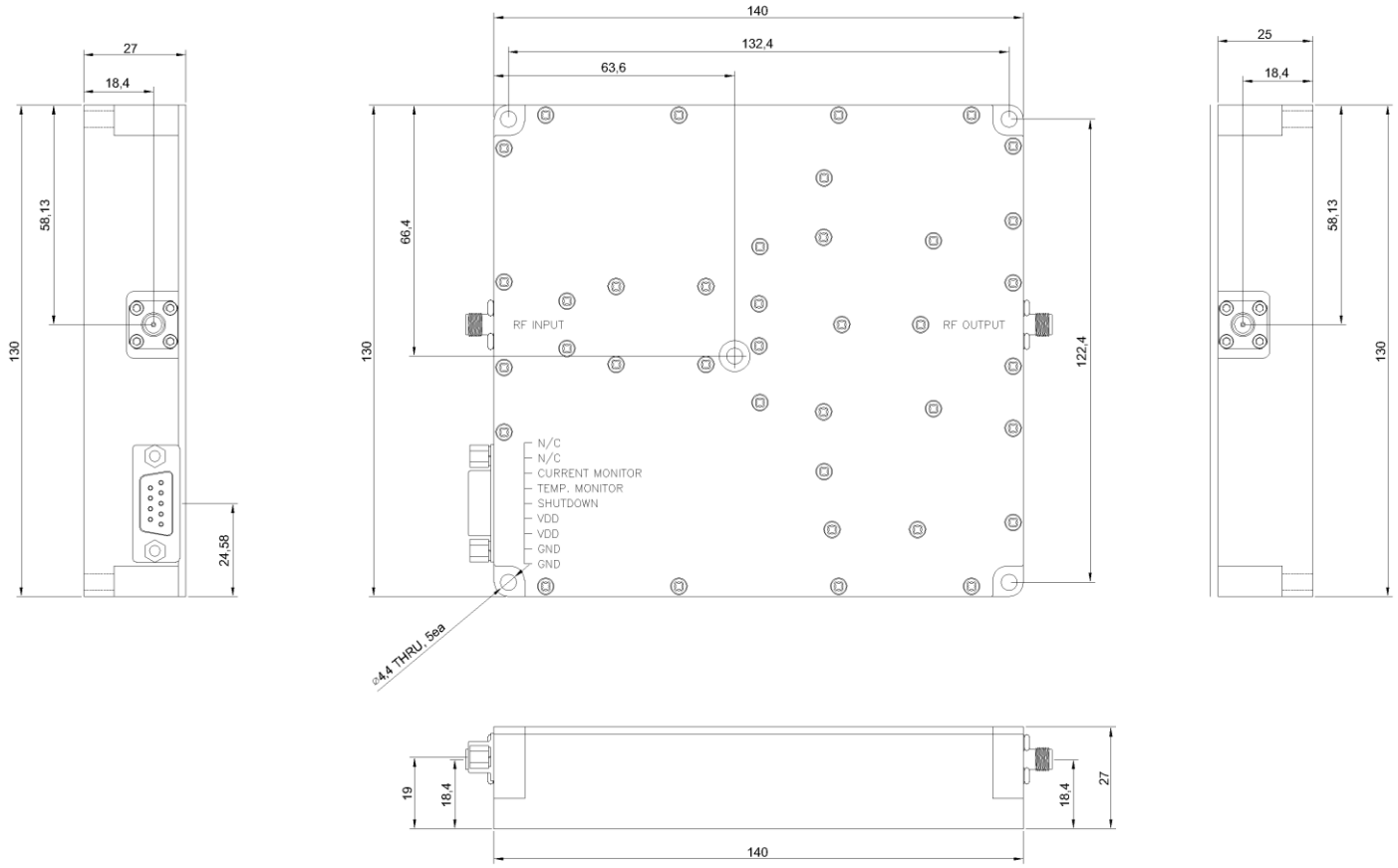
OUTLINE DRAWING