HD31073
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB GaN design
C-Band applications
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	5.6 - 5.8 GHz	BW = 200 MHz
Power Output @ PSat	250 W CW Min	Pin = -10dBm
Power Output @ P1dB	200 W CW Min	
Linear Gain	65 dB Min	
Gain Flatness	±1.5 dB Max	Small Signal
Gain Stability	±0.3 dB Max	@ Psat
Input Power	+15 dBm Max	No damage
Input VSWR	1.5 : 1 Max	Relative to 50 Ohm
Output VSWR	2.0 : 1 Max	Relative to 50 Ohm
Harmonics	-30 dBc Max	2^{nd} / 3^{rd}
Spurious	-60 dBc Max	
Operating Voltage	28 VDC Nom	
Power Consumption	44 Amp Max	At rated Pout
Quiescent Current	TBD	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-30 to +60 °C	
Storage Temperature	-40 to +80 °C	
Relative Humidity	5 to 95 %	Non Condensation

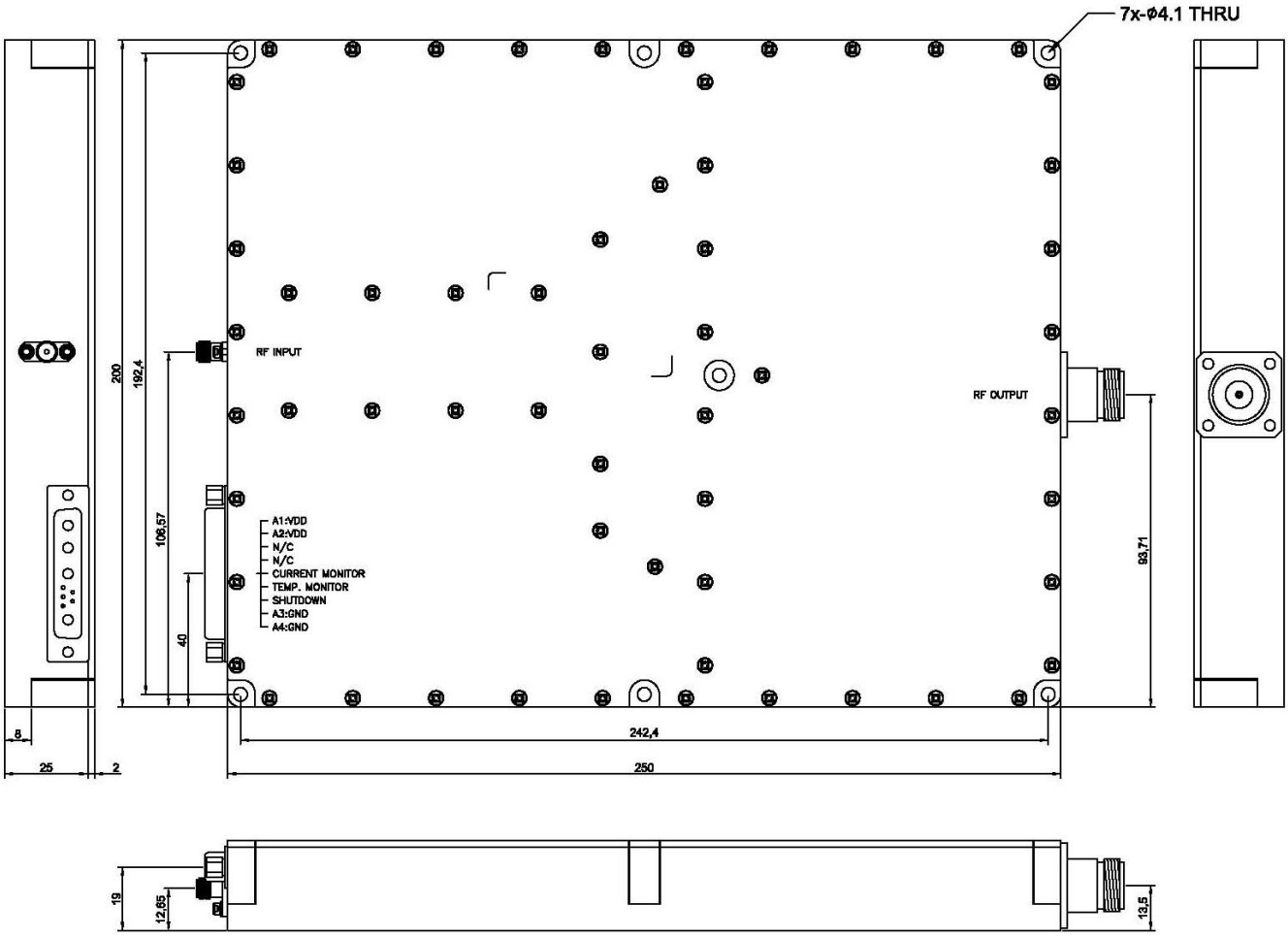
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	250 x 200 x 27 mm	Excluding Connectors
Weight	2 Kg.	
RF Connectors In/Out	SMA / Type-N female	
DC Power / Interface Connector	Hybrid 9-Pin D-Sub	9W4
Cooling	External Heatsink	Forced air required

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OUTLINE DRAWING



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