HD35256
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class A/AB linear GaN design
Instantaneous bandwidth
Suitable for all single channel modulation standards
Small form factor, light weight
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	5.0 - 5.4 GHz	
Power Output @ Psat	60 Watt Typ	CW
Power Output @ P1dB	50 Watt Min	CW
Power Gain	48 dB Min	Relative to 50 Ohm
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	0dBm or less for rated Pout
2-Tone Intermodulation (IMD)	<-30 dBc Typ	37dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	28 - 30 VDC	
Current Consumption	12 Amp Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	230 x 106 x 27 mm	Excluding connectors
Weight	1.25 Kg.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

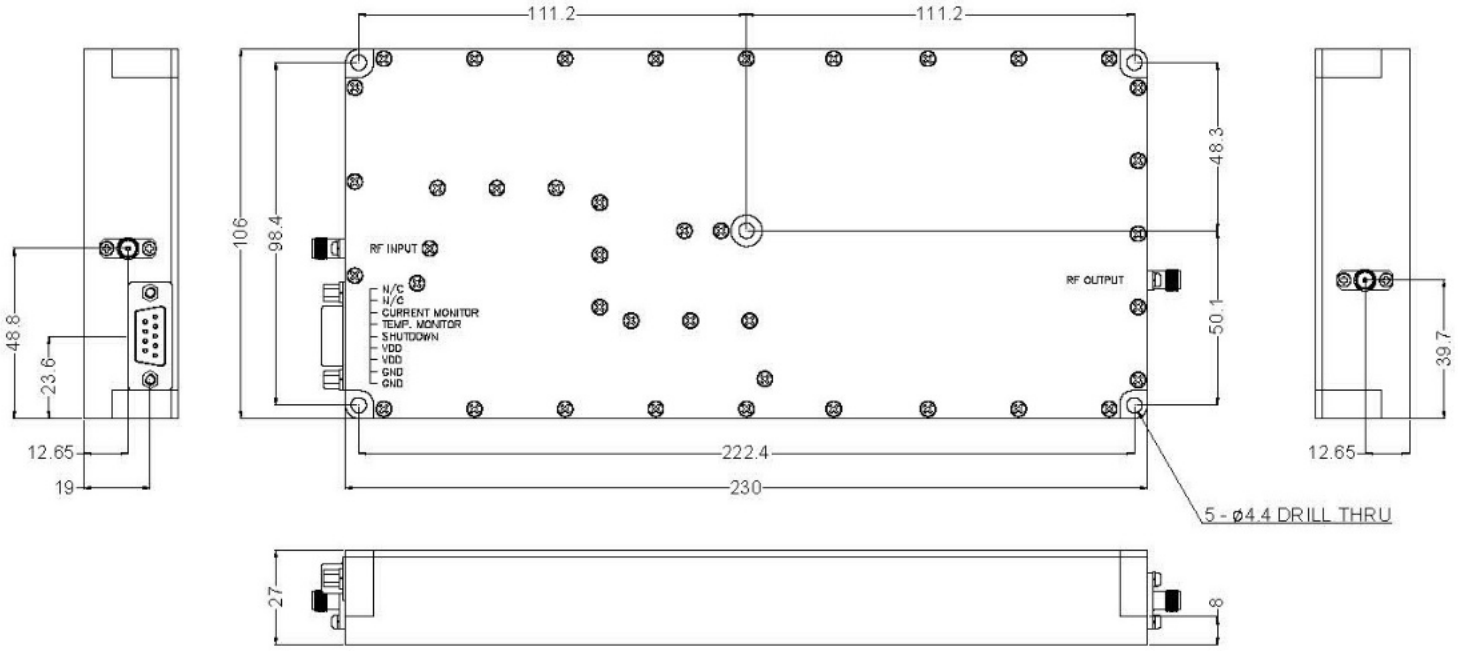
D-SUB CONNECTOR PIN ASSIGNMENT

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 High or Open; Disable = TTL Low or Short
6, 7	VDD	28VDC
8, 9	GND	Ground

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OUTLINE DRAWING

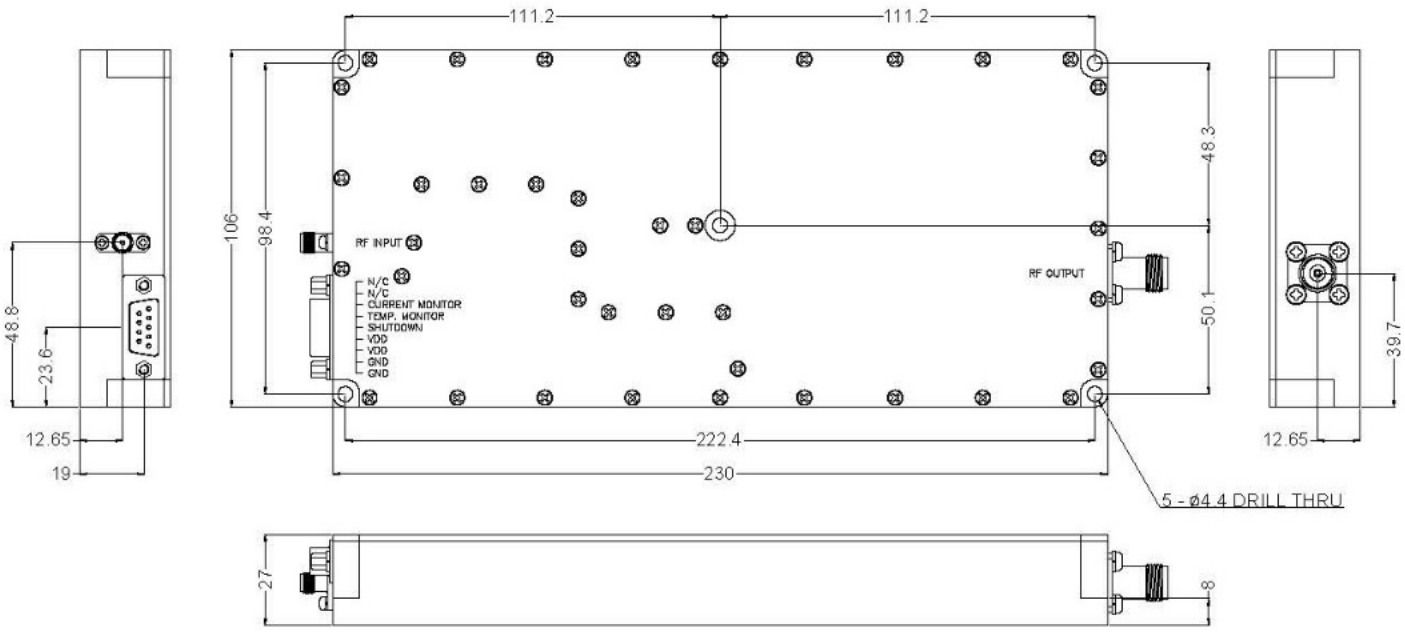


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OUTLINE DRAWING
WITH Option : TNC type Connector



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