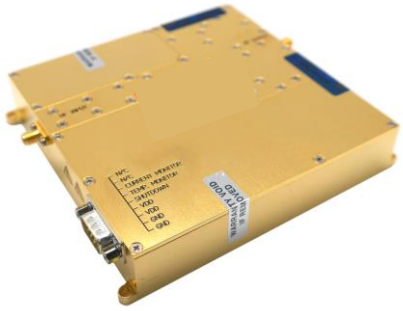
HD33882
SOLID STATE HIGH POWER AMPLIFIER



FEATURES

Class AB linear GaAsFET hybrid design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	18.0 - 26.0 GHz	
Power Output @ Psat	4 Watt Typ	CW
Power Output @ P1dB	3 Watt Typ	P1dB
Power Gain	36 dB Min	
Power Gain Flatness	6.0 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	<-15 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	9.0 ± 0.5 VDC Nom	
Current Consumption	10.0 Amp Max	At rated Pout
Input Power	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute @ rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	140 x 150 x 27 mm	Excluding connectors
Weight	700 gr.	
RF Connectors In/Out	Hi Freq. SMA female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

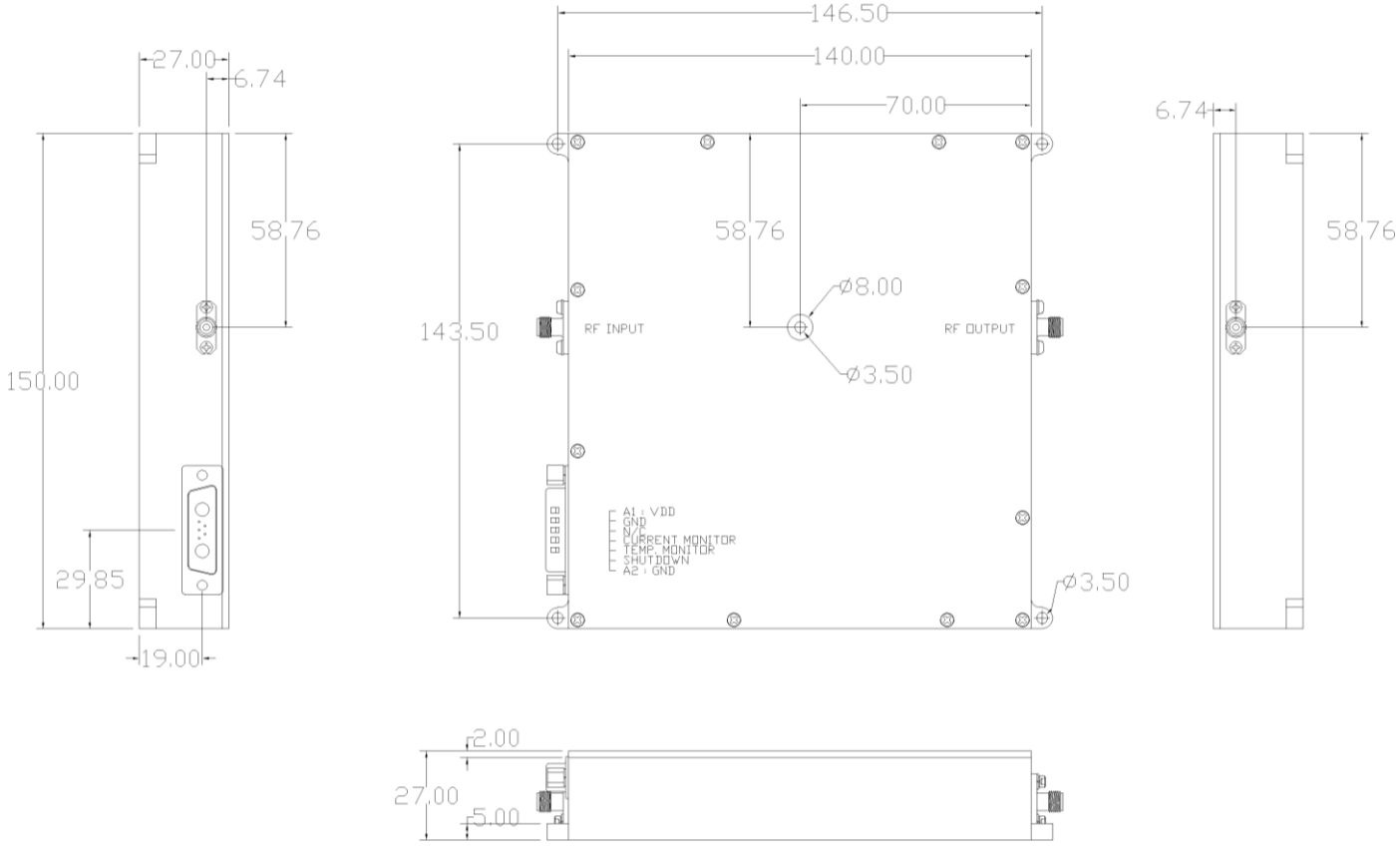
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	GNG	Ground
2	N/C	Reserved
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = TTL Hi or Open; Disable = TTL Low or Short
A1	VDD	9VDC
A2	GND	Ground

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OUTLINE DRAWING



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