HD33881
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class A/AB GaN design
Instantaneous wide Bandwidth
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	15.5 - 16.5 GHz	
Power Output @ P1dB GCP / CW	6 Watt, 10W Typ	CW
Small Signal Gain	38 dB Min	
Power Gain Flatness	3.0 dB p-p Typ	
Input Return Loss	10 dB Min	
Harmonics	>20 dBc	At rated Pout
	>-60dBc with optional external filter	Option-LPF-60 SMA Male to Female
Non Harmonics Spurious	>60 dBc	
Noise Figure	8 dB Typ	
Operating Voltage	28 VDC	22% efficiency
Current Consumption	1.6 Amp	For rated power
Max Input Power	+5 dBm Max	Without damage
Load VSWR Protection	∞:1	Isolator included

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +80 °C	w/adequate cooling
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation
Altitude	3000m	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	140 X 140 x 30 mm Typ	Excluding Conn & heatsink
Weight	1.0kg Typ	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin Dsub	
Cooling	External Heatsink	Forced air required

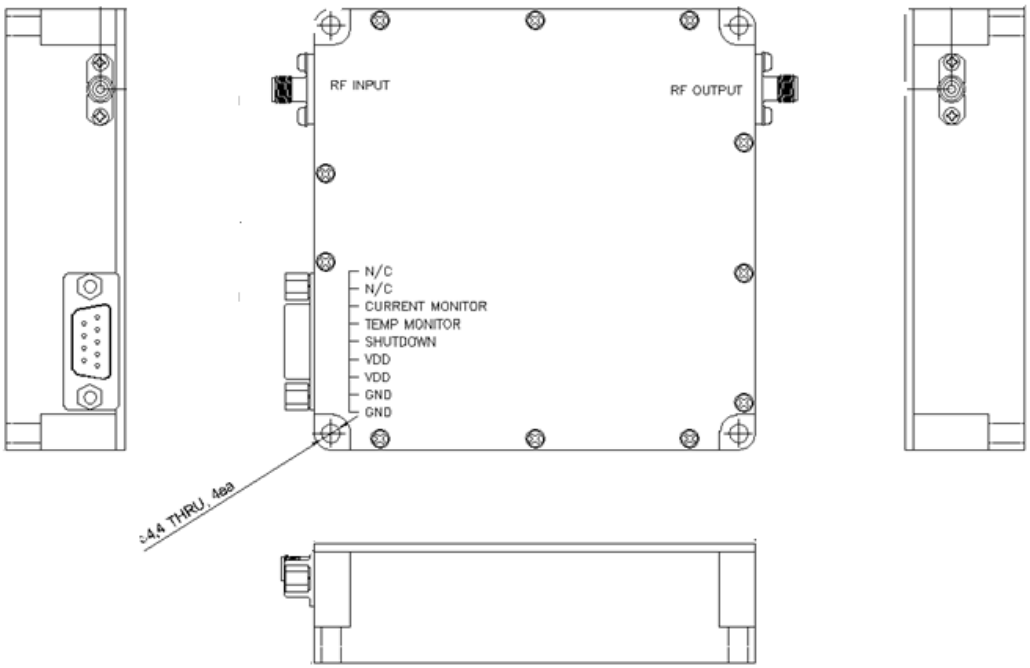
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	Current Sensor	I_D@20mV/100mA Typ
4	Temp Sensor	V_T@10mV/°C + 500mV Typ
5	Shutdown	TTL
6,7	VDD	28 VDC
8,9	GND	Ground

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OUTLINE DRAWING



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