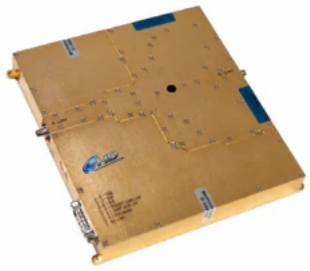
HD35101
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness
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ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output Psat	60 - 80 Watt Typ	CW
Power Gain	50 dB Min	0dBm for normal operation
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	-20 dBc Typ	At rated Pout
Non-Harmonics Spurious	-60 dBc	
Noise Figure	10 dB Max	
Operating Voltage	32 VDC Nom	
Current Consumption	23 Amp Max	At rated Pout
Max input Power Protection	+3 dBm Max	10 Sec without damage
Load VSWR Protection	3 : 1	1 Min @ 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-Condensation

P1dB, P3dB and Psat power test signal: 200µs pulse width with 10% duty cycle. * For average CW power testing or increased duty cycle, a 5dB back-off from Psat is required unless water/oil cooling system is applied

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	180 X 200 X 27mm (7.09 x 7.87 x 1.06 inch)	Excluding connectors
Weight	5.15 Kg	
RF Connectors In/Out	SMA female	Cover Flange
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

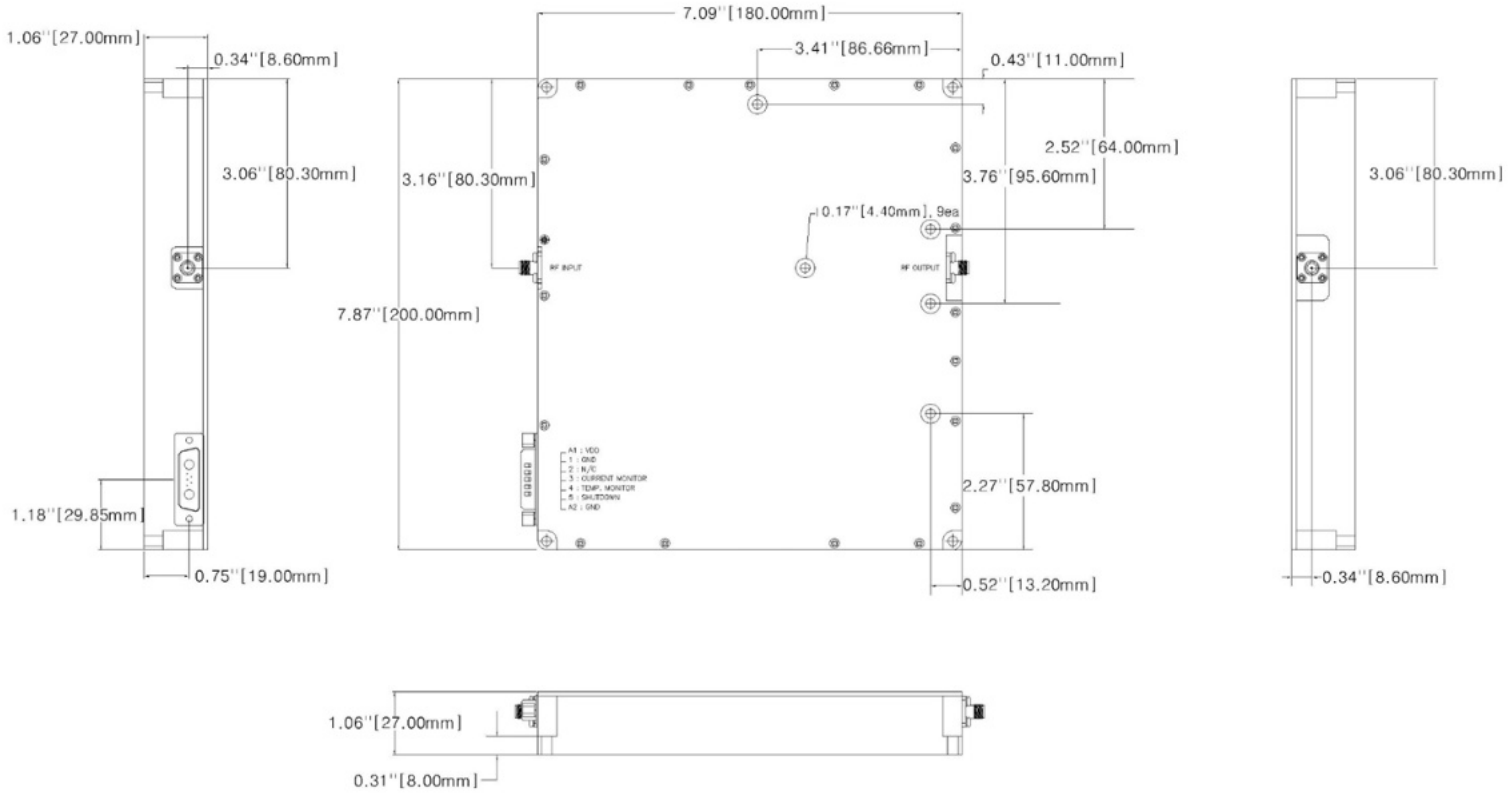
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	GND	Ground
2	N/C	N/A
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = TTL "Low" or 0V / Disable = TTL "High" (>3.2V)
A1	VDD	32VDC
A2	GND	Ground

38 Jericho Turnpike, Suite 387, Syosset NY, 11791 (631)-588-3877
www.rfamplifiers.com sales@hdcom.com. www.rfcomp.com
Specifications subject to change without notice. Specifications and drawings may vary with selected options.

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OUTLINE DRAWING



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