HD35215
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear hybrid design
Instantaneous bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Range	18.0 - 40.0 GHz		
Power Output Psat	18.0 - 30.0GHz	5 Watt Min	
	30.0 - 40.0GHz	5 Watt Typ	
Power Gain	37 dB Min		
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Input / Output Return Loss	-10 dB Max		
Noise Figure	12 dB Max		
Harmonics	20 dBc Max		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	28 VDC Nom		
Current Consumption	7 Amp Typ		At rated Pout
Input Power Protection	+3 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 +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	123 x 106.2 x 22 mm	Excluding connectors
Weight	2 lbs. Typ	
RF Connectors In/Out	K Type female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

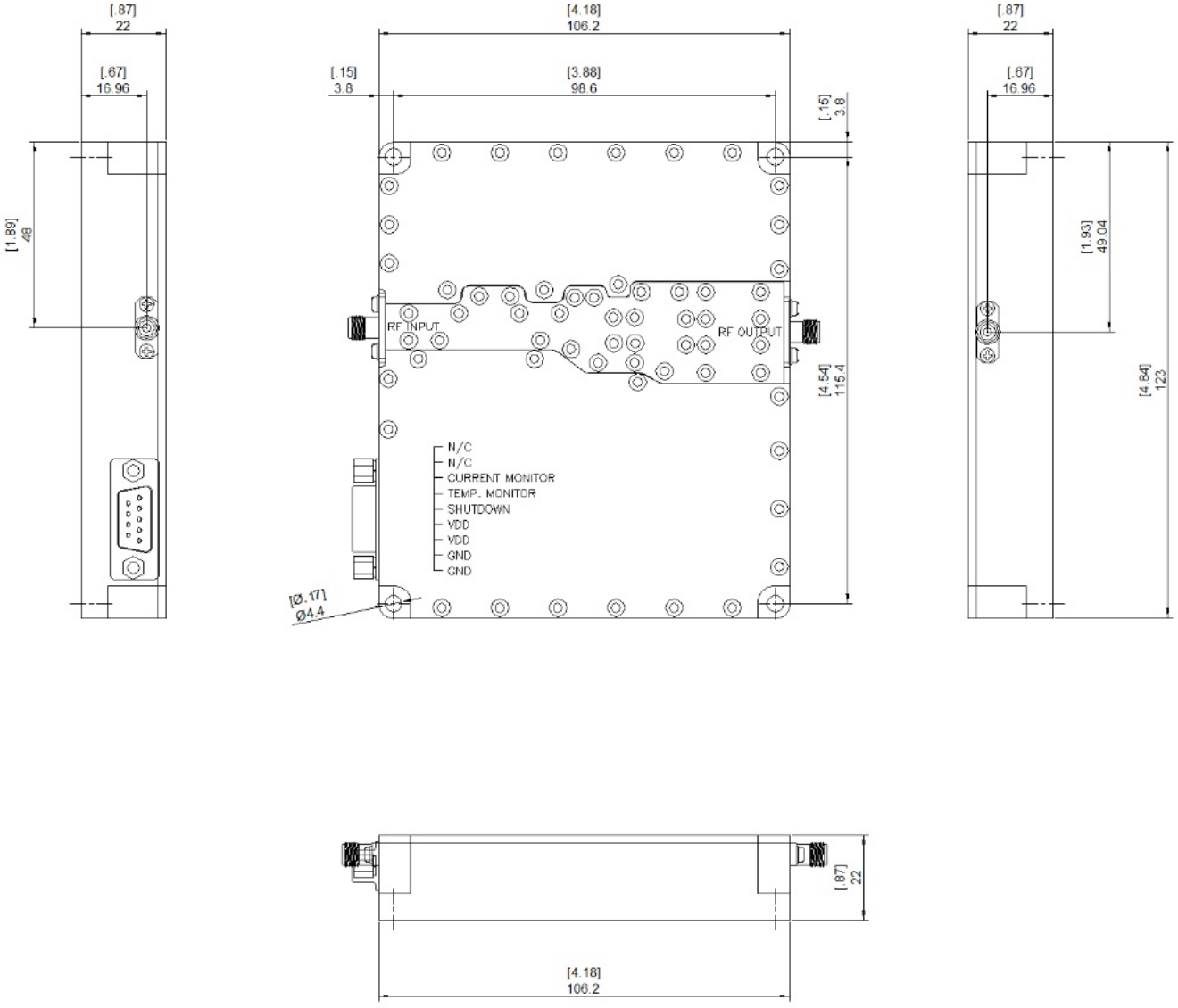
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	Reserved
2	N/C	Reserved
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
6, 7	VDD	28VDC
8, 9	GND	Ground

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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

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OUTLINE DRAWING



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