HD35216
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	-15 dBc Typ up to 22GHz -20dBc >22Ghz		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	22 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

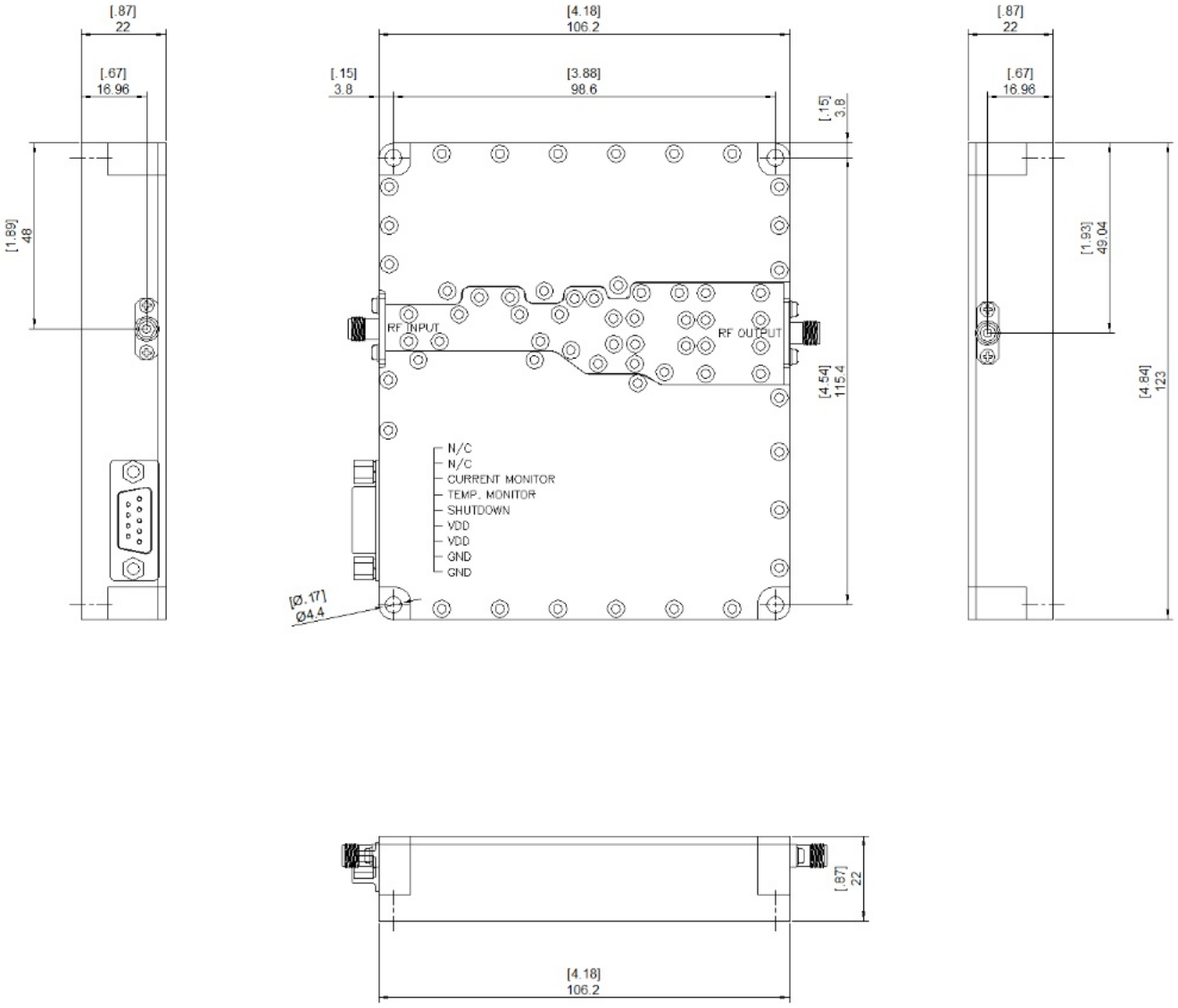
D-SUB CONNECTOR PIN ASSIGNMENT

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

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.

HD35216
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING



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.