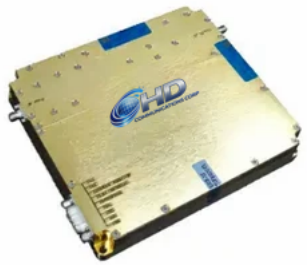
HD33876
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB GaN design
Instantaneous ultra-wide Bandwidth
Full coverage of C, X and Ku Bands
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	4.0 - 18.0 GHz	
Power Output @ Psat	10 Watt Min	CW
Power Gain	45 dB Min	
Power Gain Flatness	5 dB p-p Max	±0.3dB over 29-30°C
Input Return Loss	-10 dB Max	
Harmonics 2nd/3rd	-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	32 VDC Nom	
Current Consumption	3.5 - 4.2 Amp Max	At rated Pout; 4.6Amp @ Psat
Max Input Power	0 dBm Max	<10 Sec without damage
Load VSWR Protection	3 : 1 Max	<1 minute without damage
RF Leakage Suppression	75 - 80 dB Typ	EMI filter feed-thru connectors and shielding gasket

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +60 °C	Thermal shutdown at >+60 °C
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	160 x 140 x 27mm	Excluding connectors
Weight	1.2 Kg.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	Feed-thru connector
Cooling	External Heatsink	Forced air required

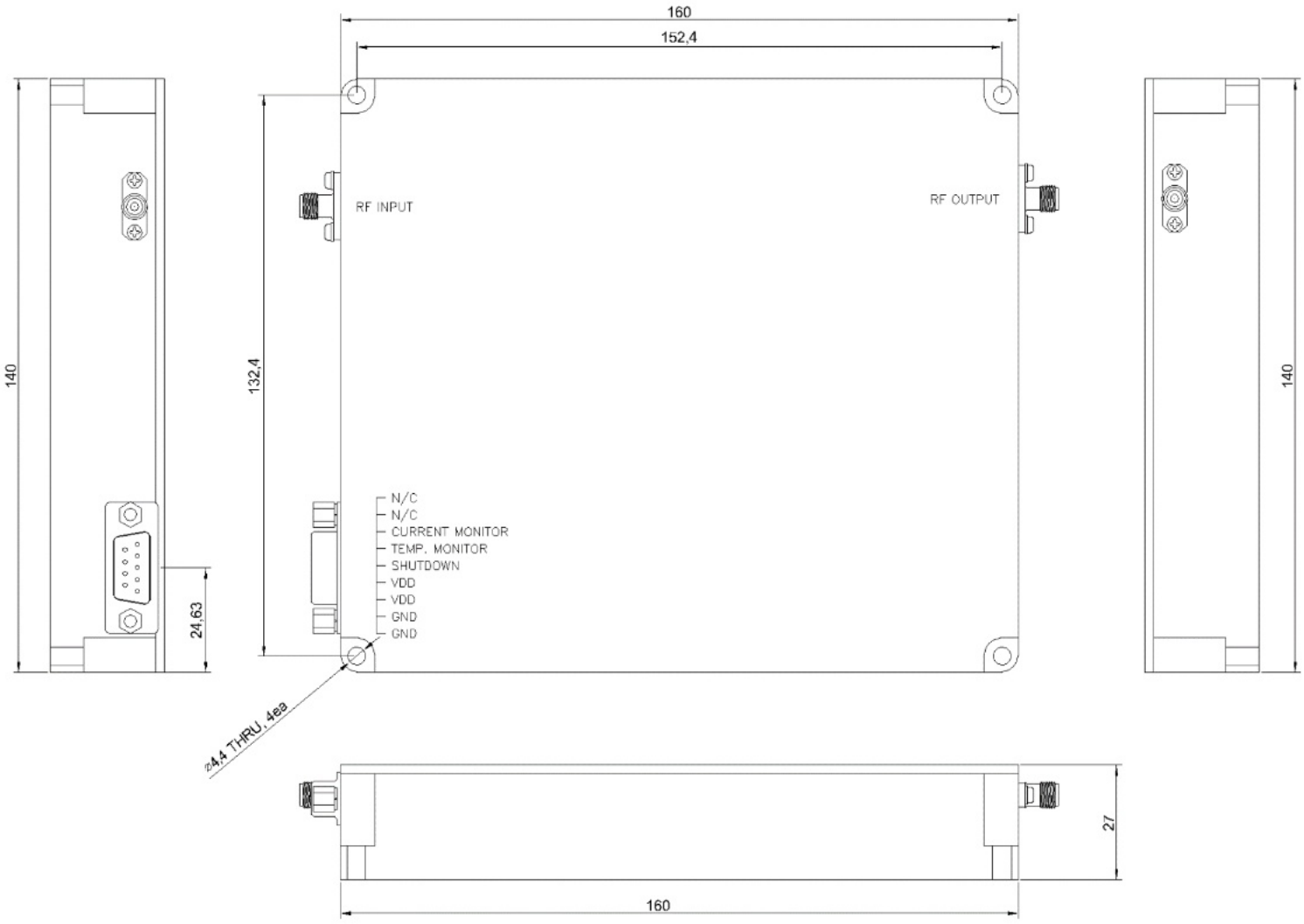
D-SUB CONNECTOR PIN ASSIGNMENT : (EMI Filter Connector)

Pin	Function	Description
1	N/A	N/A
2	N/A	N/A
3	CURRENT SENSOR	I_D@50mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = TTL "High" or OPEN / Disable = TTL "Low" or GND
6, 7	VDD	32VDC
8, 9	GND	Ground

338 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.

HD33876
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING



338 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.