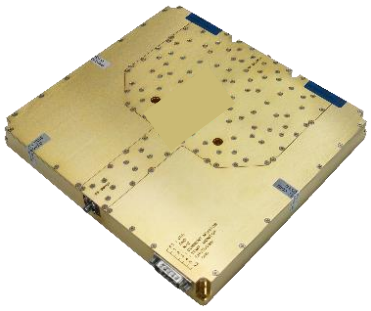
HD31967
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Class AB linear GaN design
Instantaneous bandwidth
Suitable for X-Band linear short pulse applications
Small form factor and light weight
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes
Operating Frequency Range	9.5 - 10.0 GHz			
Pulse Power Output	300 Watt Min			Peak pulse
Power Gain	55 dB Min			
Power Gain Flatness	3.0 dB p-p Max			
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	
	0.2 - 2 µS	1 %	1 KHz	
Input / Output Return Loss	-10 dB Max			Relative to 50 Ohm
Harmonics	-30 dBc Typ			At rated Pout
Spurious	-60 dBc Max			Non-harmonics
Operating Voltage	32 VDC Nom			
Current Consumption	10 Amp Avg Max			At rated Pout
Input Power Protection	+3 dBm Max			<10 Sec without damage
Load VSWR Protection	3 : 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	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	220 x 235 x 27 mm	
Weight	3 Kg.	
RF Connectors In/Out	Hi-Freq. SMA female	Optional WG (WR90)
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

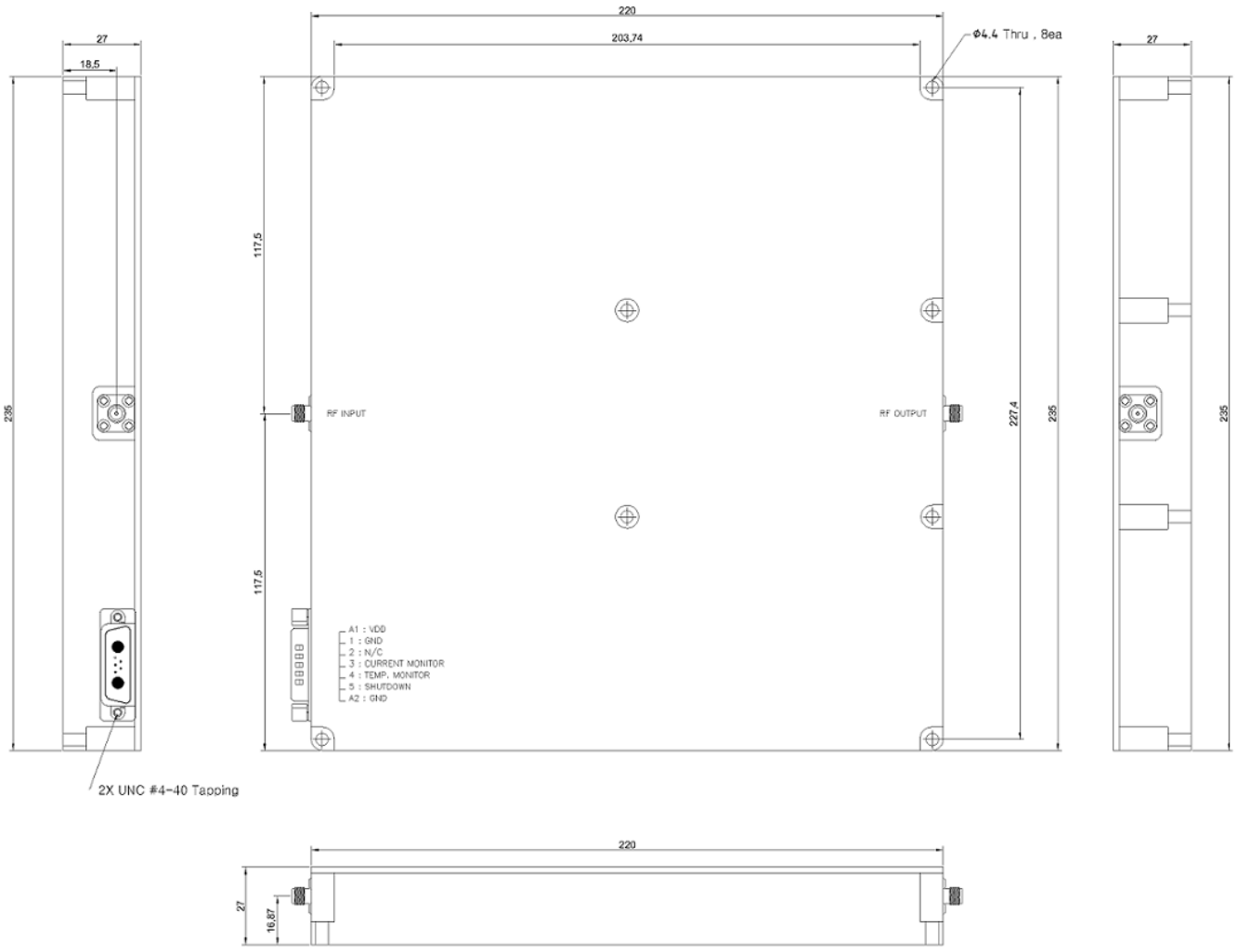
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	
2	N/C	
3	CURRENT SENSOR	I_D@50mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL “Hi” = Disable Function @ <50mS
A1	VDD	32VDC
A2	GND	Ground

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OUTLINE DRAWING



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