HD33636
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear design
Single Carrier WLAN, LTE, 3GPP and Comm applications
Suitable for other modulations standards
Built-in monitoring and protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	960 - 1240 MHz	
Output Power @ Psat	200W Typ	CW
Power Gain	53 dB Min	0dBm or less for rated Pout
Power Gain Flatness	1.5 dB p-p Max	Constant input power
Input Return Loss	-12 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone Δ = 1MHz
Harmonics	-40 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	32 VDC Nom	
Current Consumption	17 Amp Max	At rated Pout
Input Power Protection	+5 dBm Max	<1 minute without damage
Load VSWR Protection	5 : 1 Max	<10 Sec at rated Pout
Turn On / Off Speed	2 µS Max	Optional

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	220 x 120 x 28 mm	Excluding connectors
Weight	2 Kg.	
RF Connectors In/Out	SMA female / Type-N female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

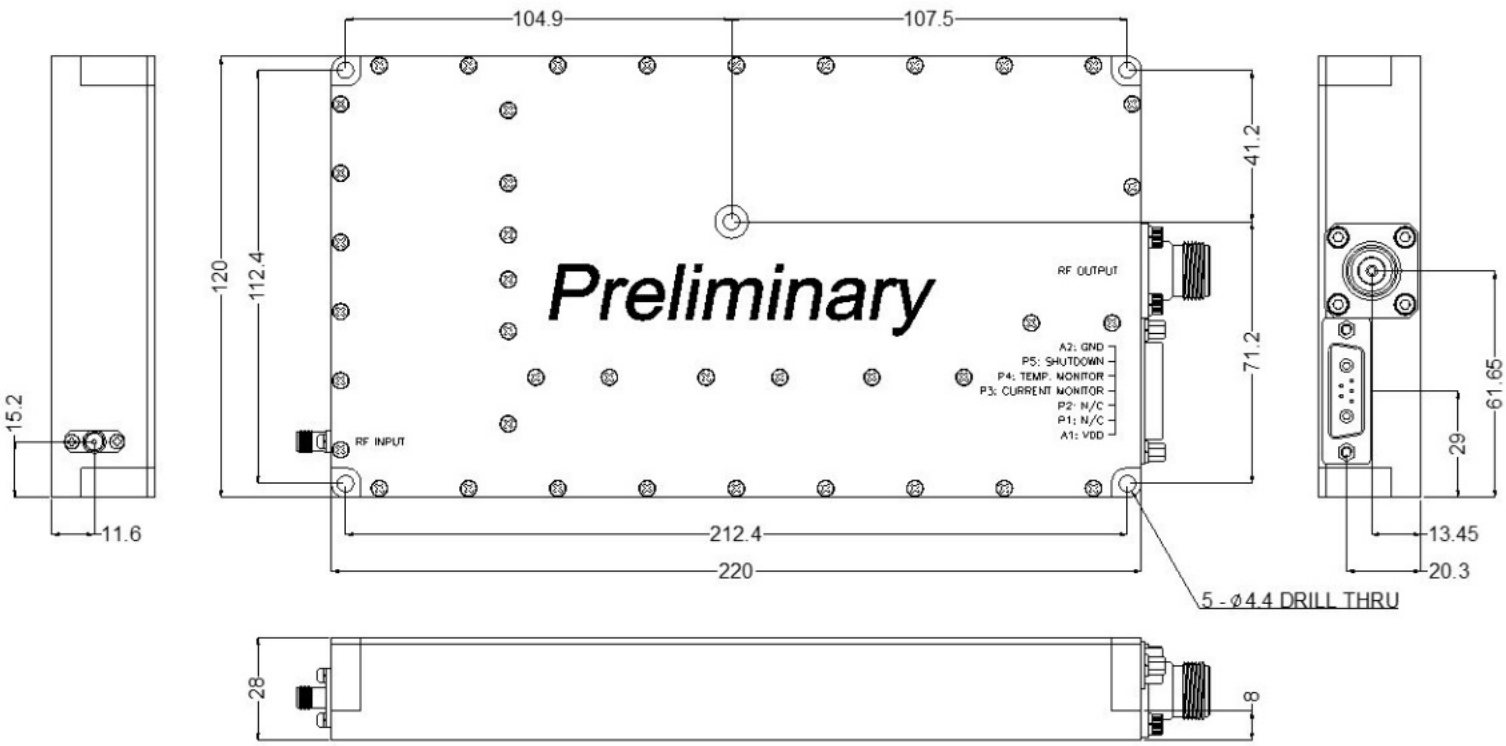
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	Option-101 (With larger housing dimensions)
2	REV	Option-102 (With larger housing dimensions)
3	CURRENT SENSOR	I_D @ 20mV/100mA Typ
4	TEMP SENSOR	V_T @ 10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = TTL High or Open; Disable = TTL Low or Short
A1	VDD	32VDC
A2	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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