HD33624
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMC-EMI/RFI, Lab, and general comm applications
Compact Small form factor, light weight, high power density
Class A/AB linear advanced technology design
Instantaneous P, L, & S-Bands ultra-wide bandwidth
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	500 - 2500 MHz	
Power Output @ Psat	200 Watt Min	CW
Power Gain	30 - 40 dB Min	+13 to +23 dBm for rated Pout
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	43 dBm/Tone, Δ = 1MHz
Harmonics 2nd / 3rd	-15 / -20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	32 VDC Nom	
Current Consumption	26 Amp Max	At rated Pout
Load VSWR Protection	5 : 1	<1 minute at rated output
Turn On / Off Speed	5 µSec Max	Optional
Amplitude Matching (optional)	±1 dB p-p Max	Per batch
Phase Matching (optional)	±15 Degrees	Per batch

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[1]	

1 MIL Spec available for quotation.

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	220 x 156 x 27 mm	Excluding connectors
Weight	1.8 Kg.	
RF Connectors In/Out	SMA female / Type N female	
DC Power / Interface Connector	7W2 - 7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

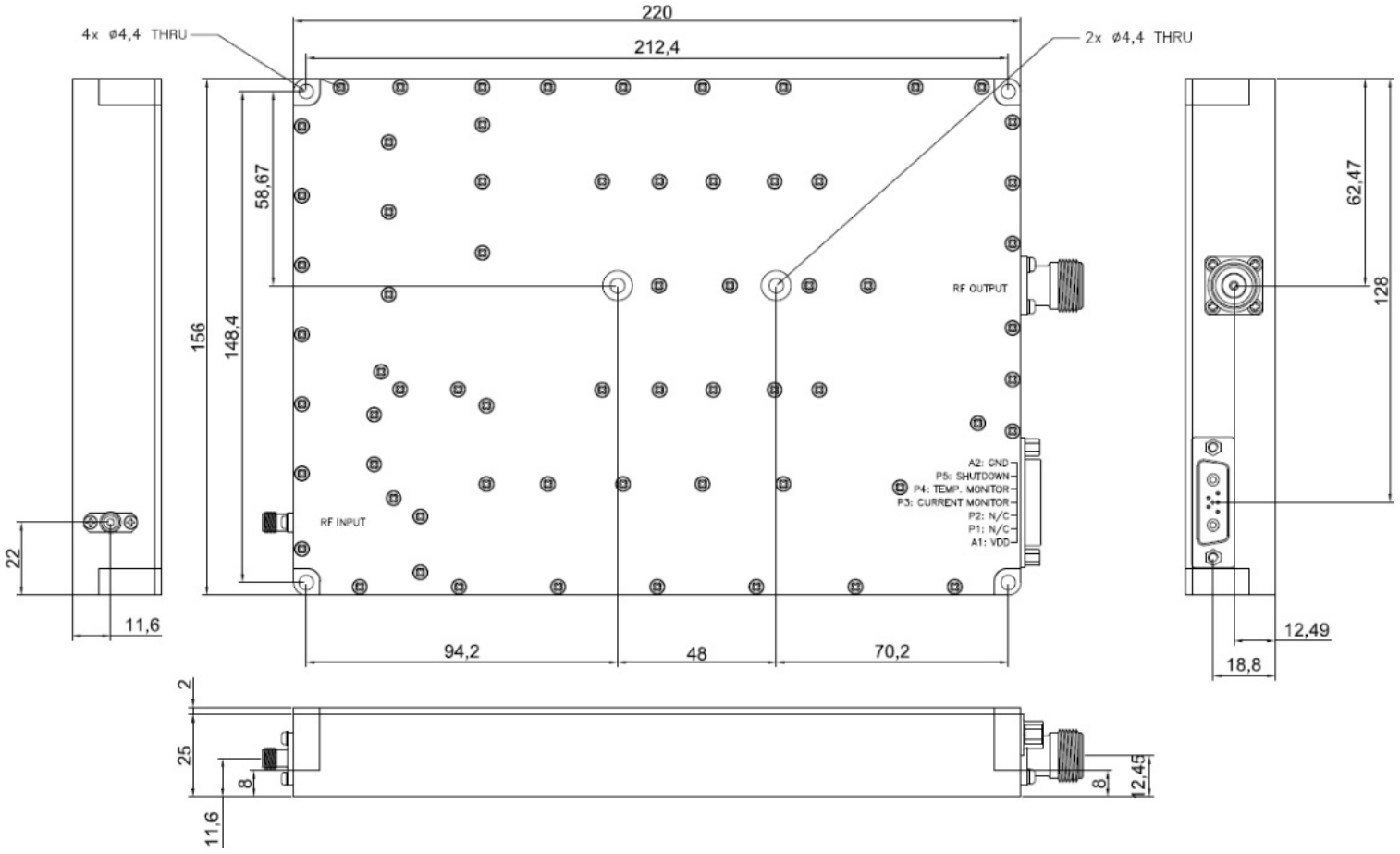
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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	OPTION 101 - Forward power detect
2	VVA	OPTION 103 - Variable Voltage Attenuator
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 GND
A1	VDD	32VDC
A2	GND	Ground

OUTLINE DRAWING



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