HD32869
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Class AB linear balanced Push-Pull LDMOS design
Instantaneous wide bandwidth
High peak pulse power covering the VHF & UHF frequency range
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	170 - 500 MHz				
Power Output @ Pulse	500 Watt Min			Peak pulse	
Pulse Characteristics	**Width (tp)**	**Duty (δ)**	**Droop**	**Rise / Fall**	
	100 µS	10 %	<1.0 dB	<100 nS Typ	
Power Gain	57 dB Min				
Power Gain Flatness	3.0 dB p-p Max			Constant input power	
Input / Output Return Loss	-10 dB Max			Relative to 50 Ohm	
Harmonics 2^{nd}/ 3^{rd}	-20 dBc Typ			At rated Pout	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	28 - 30 VDC				
Current Consumption	4 Amp Avg / 35 Amp Peak Max			δ = 10%, tp = 100µS	
Input Power Protection	+5 dBm Max			<10 Sec without damage	
Load VSWR Protection	∞ : 1			<1 minute at rated Pout	
Turn On / Off Speed	5 µSec Max				

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	240 x 170 x 40 mm	Excluding connectors
Weight	-	
RF Connectors In/Out	SMA female / Type-N Female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	7W2
Cooling	External Heatsink	Forced air required

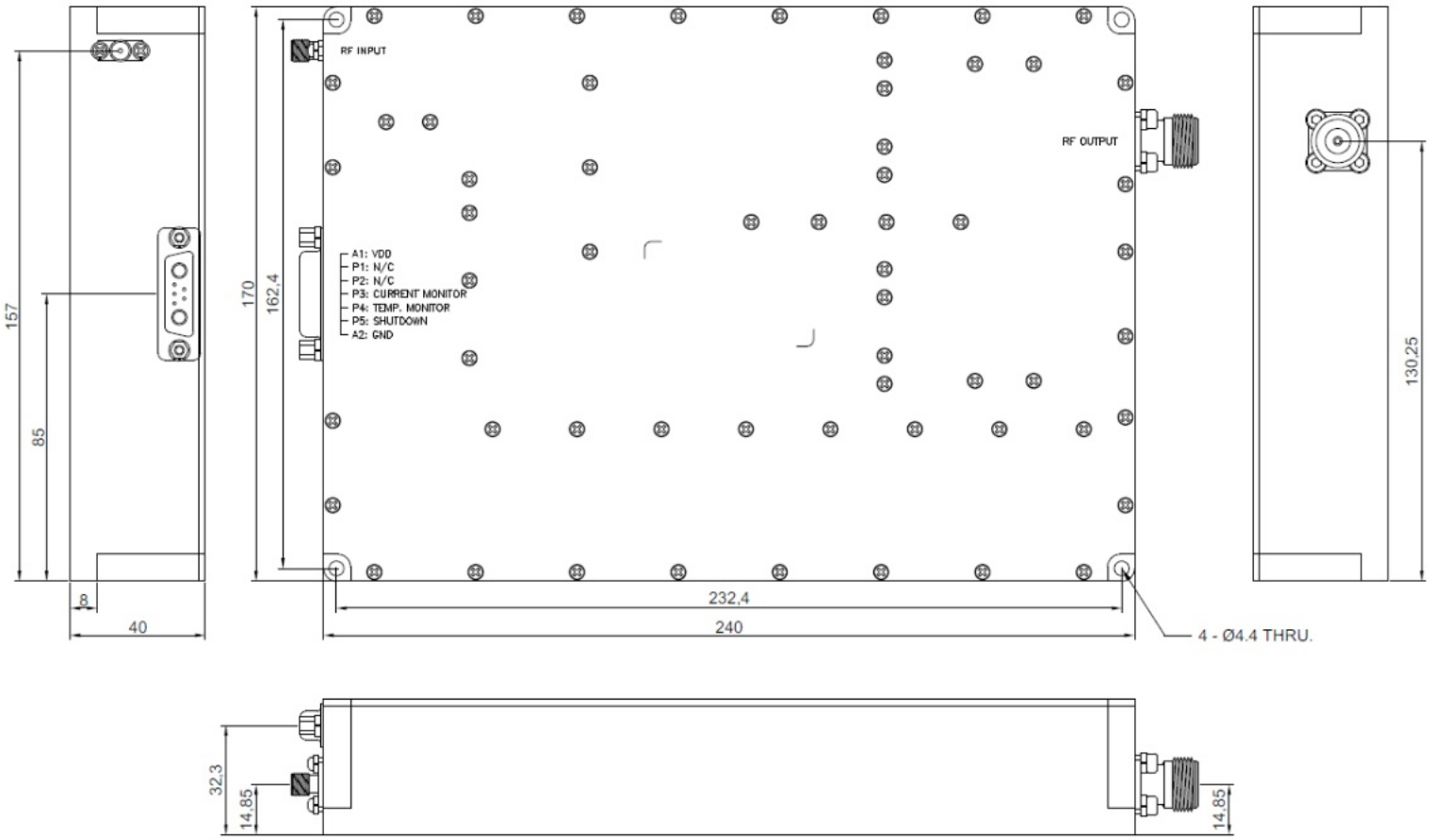
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
P1	N/C	N/C
P2	N/C	N/C
P3	CURRENT SENSOR	I_D@20mV/100mA Typ
P4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
P5	SHUTDOWN	Enable = TTL "High" - Disable = Open or TTL "Low"
A1	VDD	+28VDC
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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