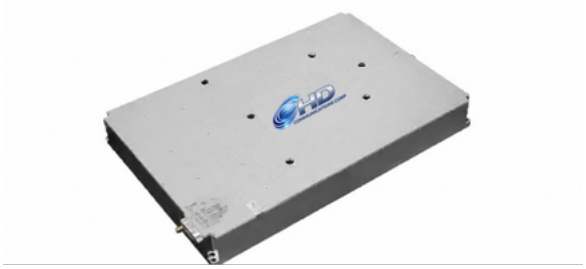
HD33626
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Class AB linear GaN design
Designed for high power P, L & S-Bands high power pulse applications
Built in fast pulse modulator
Built-in monitoring and protection circuits
High reliability and ruggedness
Built-in isolator



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification				Notes
Model	AMP1145 P-1	AMP114 5P	AMP114 5P-A	AMP1145 P-B	
Operating Frequency Range	0.4 - 1.0 GHz	1.0 - 2.0 GHz	0.4 - 2.0 GHz	1.0 - 2.5 GHz	
Power Output @ Pulse	1 KW Min / 1.2 KW Typ		700 Watt Min	1 KW Min	Peak Pulse
Pulse Characteristics	**Width (tp)**	**Duty (δ)**	**Droop**	**Rise / Fall**	Max rating
	100 µS	10 %	<1.0 dB[1]	<75 nS Typ	
Switching Delay Time (Td)	200 nS Typ				
Power Gain	60 dB Nom				
Power Gain Flatness	2.0 dB p-p Typ				
Input / Output Return Loss	-12 dB Max				Relative to 50 Ohm
Harmonics 2nd / 3rd	-20 dBc Typ / -15 dBc Typ				At rated Pout
Spurious	-65 dBc Max				
Operating Voltage	50 VDC Nom				Non-harmonics
Current Consumption	15 Amp Avg / 100 Amp Peak Max				δ = 10%, tp = 100µS
Input Power Protection	+5 dBm Max				<10 Sec without damage
Load VSWR Protection	10 : 1 Max				<1 minute at rated Pout
Pulse Trigger / Modulator speed	1 µS Max				

ENVIRONMENTAL CHARACTERISTICS

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	365 x 250 x 43 mm AMP1145P-A: 380 x 250 x 43 mm	Outline drawing
Weight	6.5Kg.	
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

Notes:

1. Required 10KuF Ext. Cap

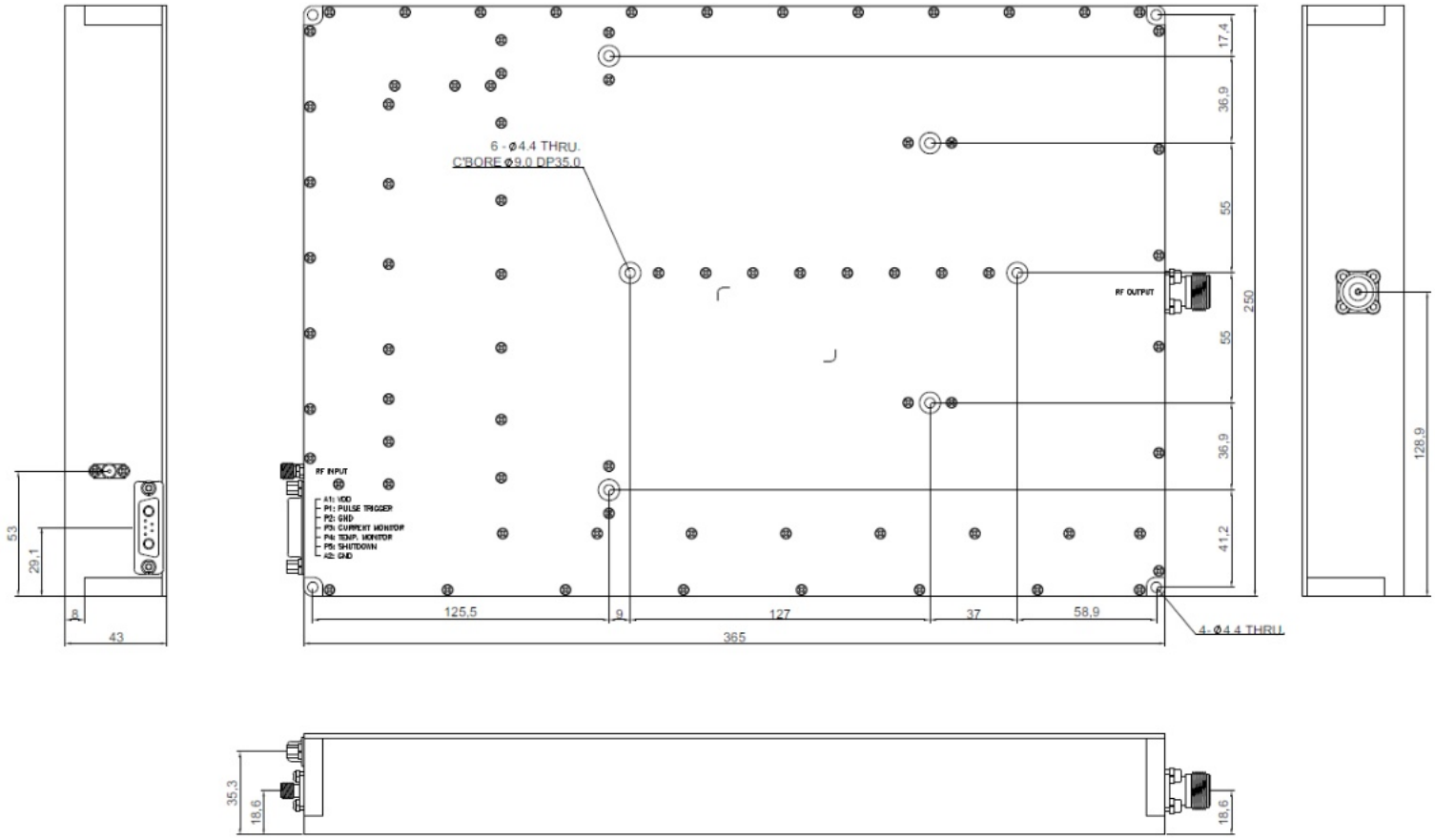
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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
P1	PULSE TRIGGER	Enable = TTL "High" - Disable = Open or TTL "Low"
P2	GND	Ground
P3	CURRENT SENSOR	I_D@20mV/100mA Typ
P4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
P5	SHUTDOWN	Enable = TTL High or Open / Disable = TTL Low or Short
A1	VDD	+50VDC
A2	GND	Ground

OUTLINE DRAWING

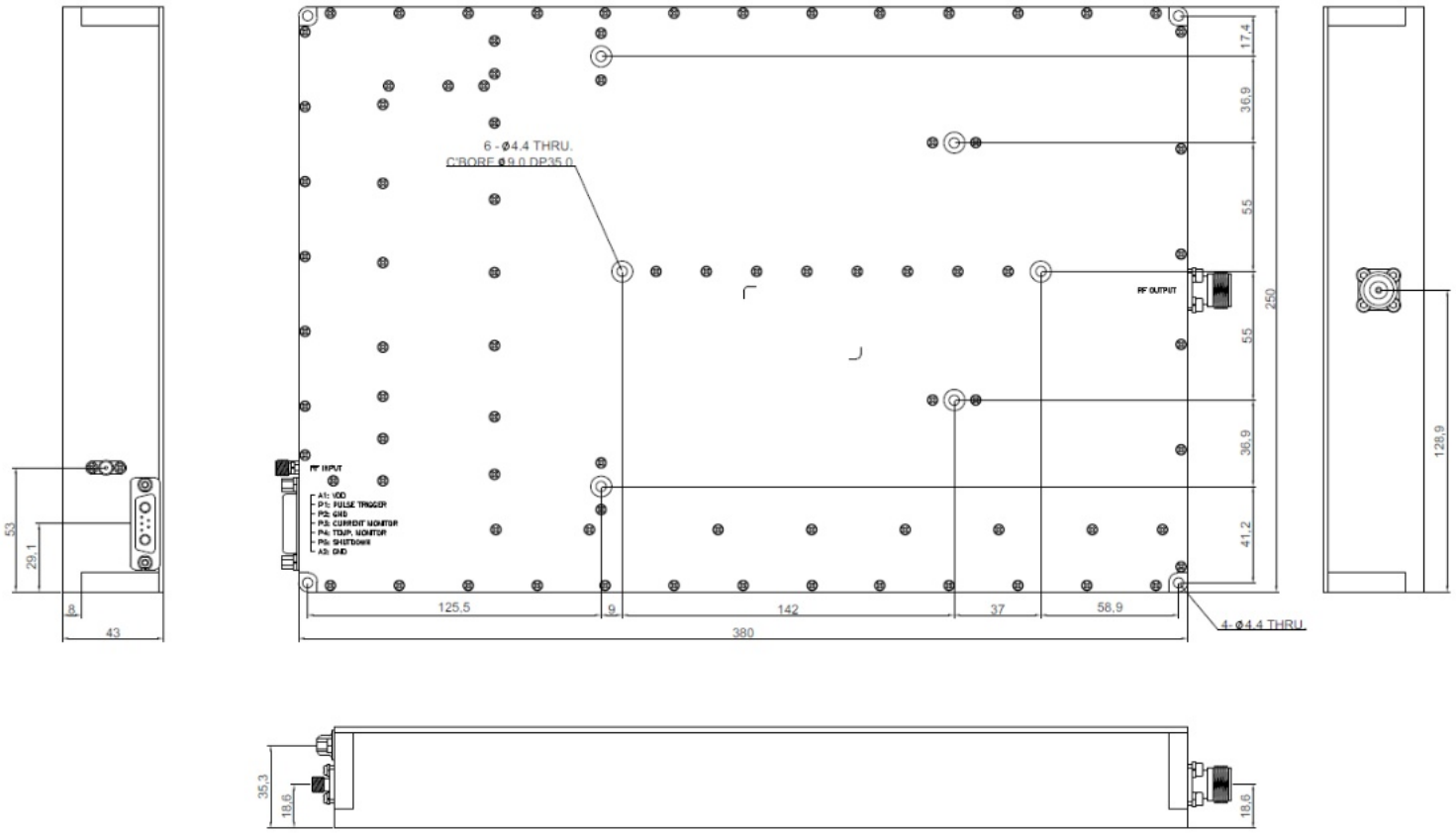


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OUTLINE DRAWING
AMP1145P-A



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