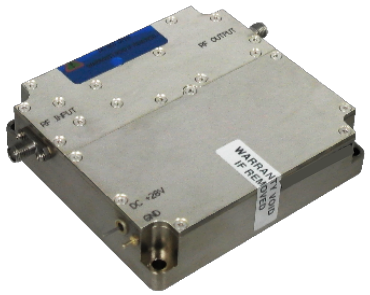
HD Communications Corp.

HD32313
SOLID STATE HIGH POWER AMPLIFIER



FEATURES

Class AB GaN design
Instantaneous ultra wide Bandwidth
Built-in protection circuits
Suitable for all single channel modulation standards
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Range	0.4 - 0.7 GHz	0.7 - 8.0 GHz	
Power Output Psat	3 Watt Typ	5 Watt Min	
Power Output P1dB GCP	1 Watt Typ		CW
Small Signal Gain	37 dB Min		
Power Gain Flatness	4 dB p-p Max		
Input Return Loss	<-10 dB Typ		
Harmonics	-20 dBc Typ		-10dBc Typ @ 0.4-2GHz @ rated Pout
Noise Figure	8 dB Max		
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	22 - 24VDC Nom		
Current Consumption	1.8 Amp Max / <1.5 Amp Typ		At rated Pout
Max Input Power Protection	+5 dBm Max		<10 Sec without damage
Load VSWR	5 : 1 Max		<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +70°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	5 to 95 %	Non-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	90 x 85 x 22mm	Excluding connectors
Weight	300 gr.	
RF Connectors In/Out	SMA female	
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

PIN ASSIGNMENT

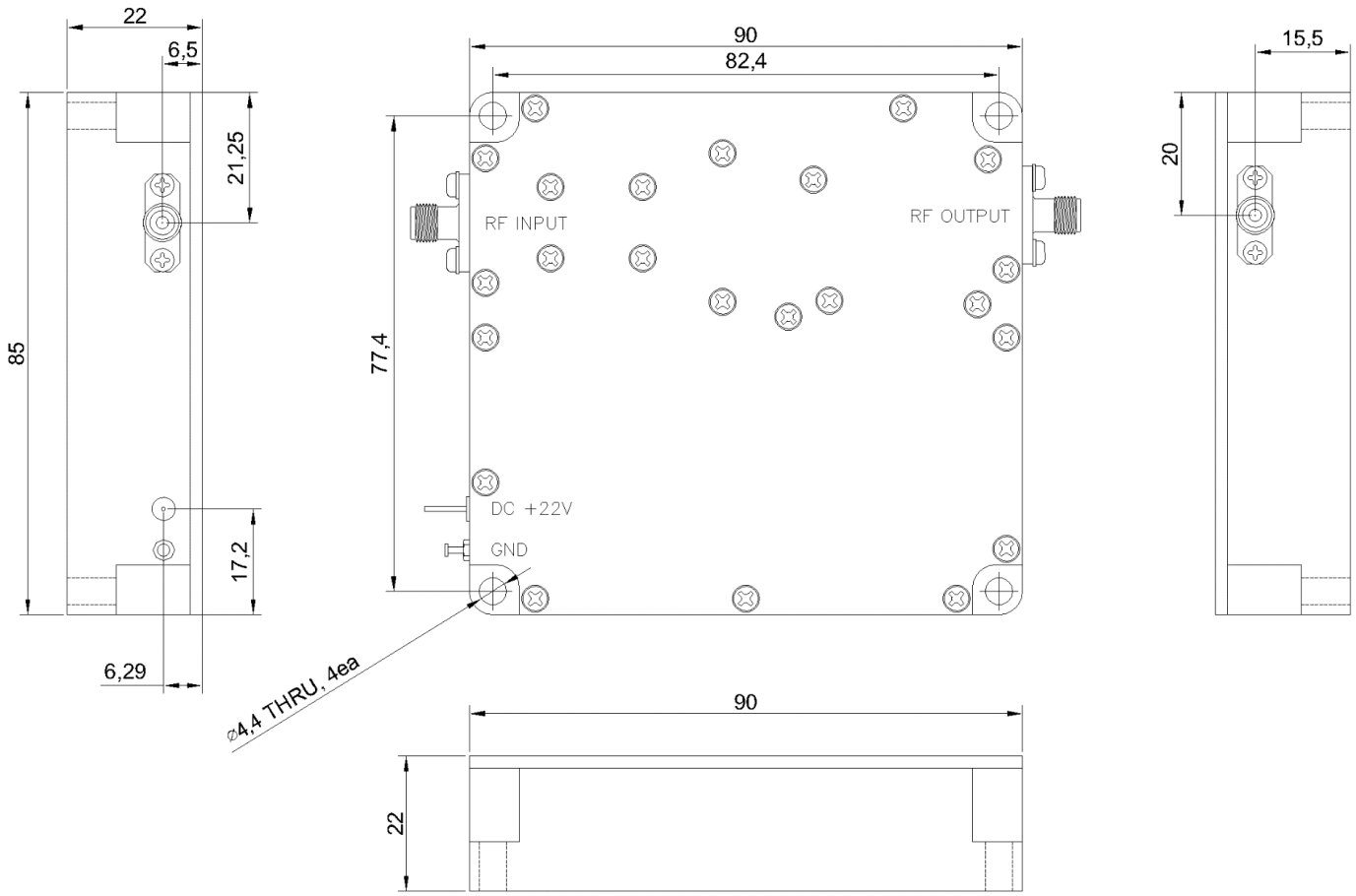
Pin	Function	Description
1	DC Voltage	+22 - 24VDC
2	GND	GND

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OUTLINE DRAWING



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