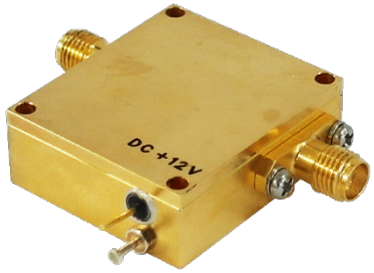
HD Communications Corp.

HD31936
SOLID STATE MEDIUM POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output Psat	2 Watt Min / 2.5 Watt Typ	CW
Power Output P1dB GCP	2 Watt Min	CW
Power Gain	10 dB Min	
Power Gain Flatness	3 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	12 VDC Nom	
Current Consumption	2.5 Amp Max / <2.0 Amp Typ	At rated Pout
Input Power Protection	+3 dBm Max	Without damage
Load VSWR	5 : 1 Max	

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	30 x 36 x 10 mm	Excluding connectors
Weight	TBD	
RF Connectors In/Out	Hi Freq. SMA female	
DC Power	Feed Thru	
Mounting Holes	4 Nos., M 2.7 through holes	
Sealing	Hermetic	

PIN ASSIGNMENT

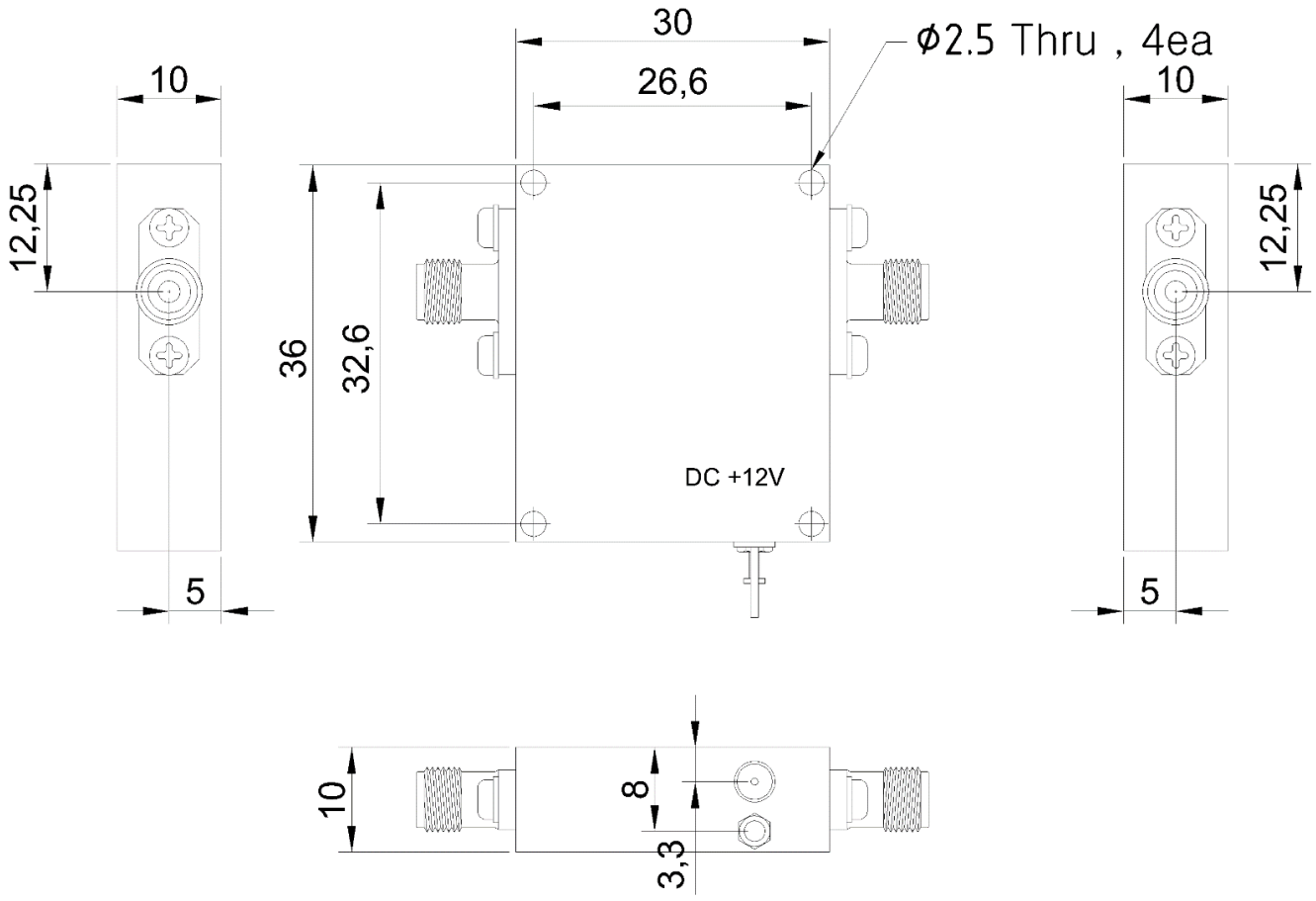
Pin	Function	Description
1	DC Voltage	+12VDC
2	GND	GND

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OUTLINE DRAWING



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