HD Communications Corp.

HD31910
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

High 3rd Order Intercept 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	600 - 2600 MHz	
Power Output P1dB	20 dBm Min	CW
Power Gain	40 dB Min	
Gain Flatness	3.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics 2nd / 3rd	<-15 dBc / <-20 dBc Typ	At rated Pout
2-Tone 3rd Order Intercept Point (IP3)	+54 dBm Typ	Δ = 1MHz
Noise Figure	4 dB Typ	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	28 VDC Nom	
Current Consumption	1.5 Amp Max	At rated Pout
Input Power	-15 dBm Max	Without damage
Load VSWR Protection	∞ : 1	

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	80 x 60 x 27 mm	
Weight	TBD	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	Feed-Thru	
Cooling	External Heatsink	Forced air required

FEED THRU PIN ASSIGNMENT

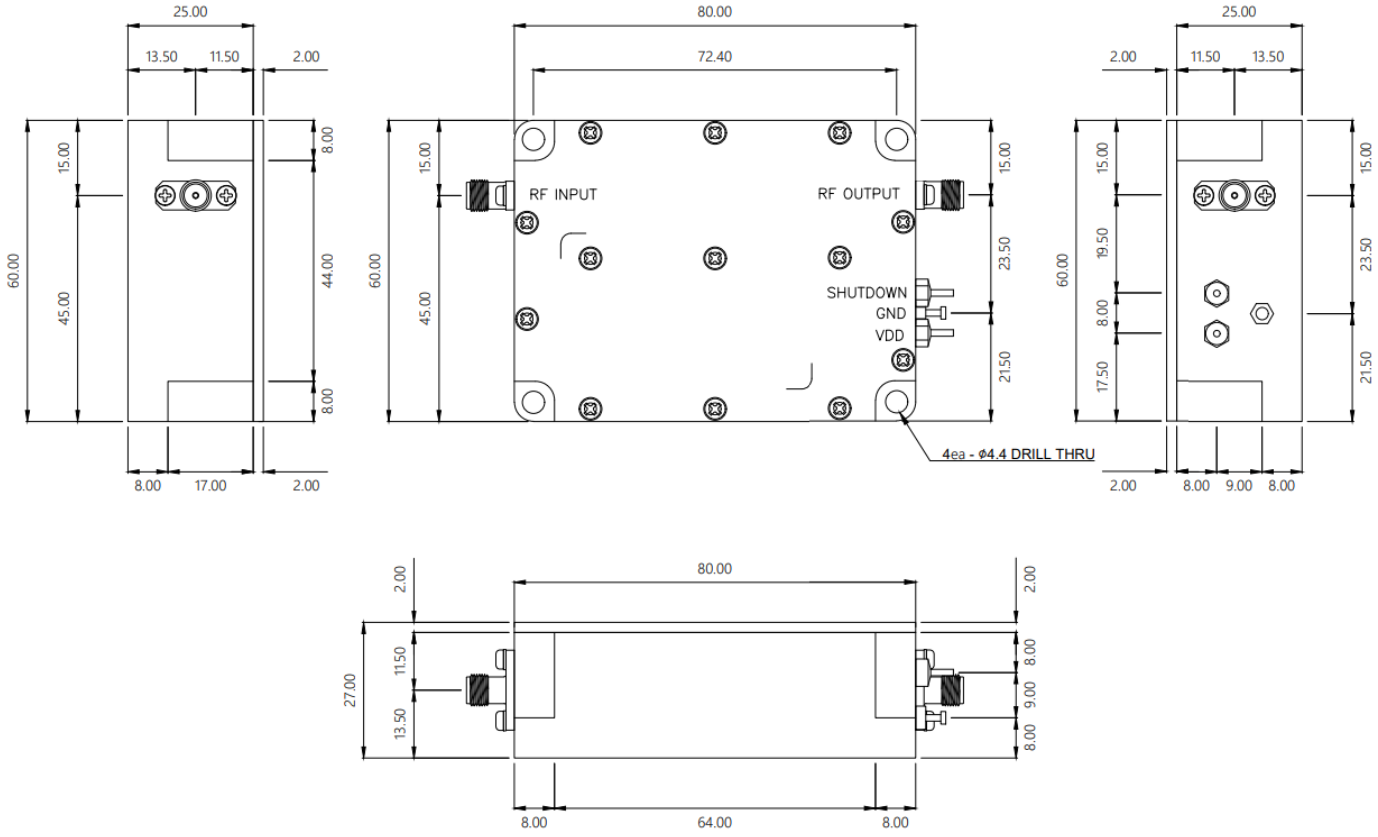
Pin	Function	Description
1	SHUTDOWN	TTL
2	VDD	28VDC
3	GND	Ground

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

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OUTLINE DRAWING



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