HD31875
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class A/AB linear Solid-state hybrid design
Instantaneous wide bandwidth
Small form factor and light weight
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	26.5 - 40.0 GHz	
Power Output Psat	5 Watt Typ	
Power Output @ P1dB G.C.P.	3 Watt Typ	
Power Gain	37 dB Min	
Power Gain Flatness	6.0 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
Noise Figure	12 dB Max	
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	9VDC Nom	
Current Consumption	9 Amp Typ	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<10 sec at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation

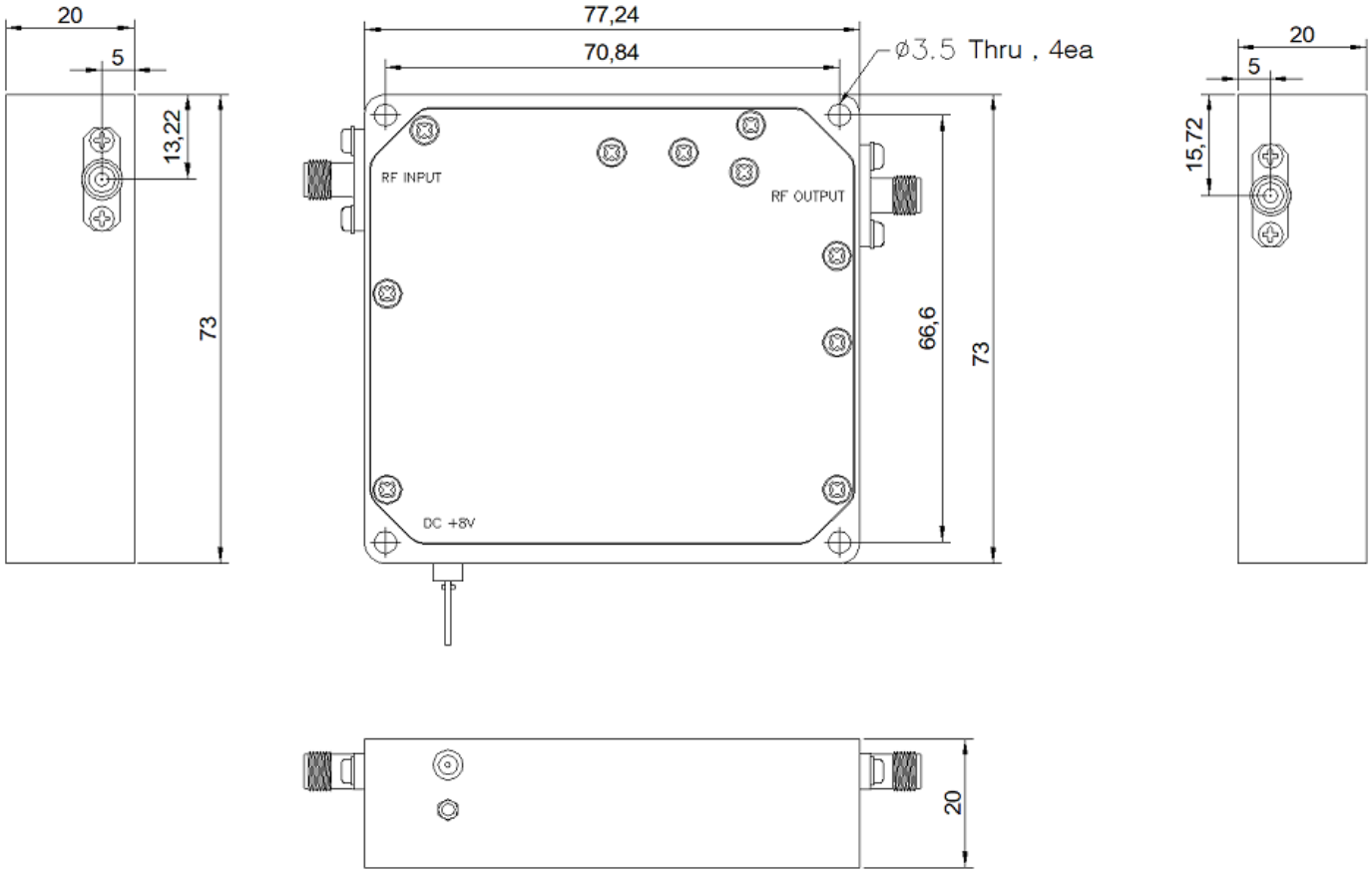
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	78 x 73 x 20 mm	Excluding connectors
Weight	0.3 Kg.	
RF Connectors In/Out	SMA 2.92 mm female	
DC Power / Interface Connector	Feed thru	
Cooling	External Heatsink	Forced air required

HD Communications Corp. 338 Jericho Tpke. Ste 387
Syosset, NY 11791
Tel: (631) 588-3877 Email: sales@hdcom.com

HD31875
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING



HD Communications Corp. 338 Jericho Tpke. Ste 387
Syosset, NY 11791
Tel: (631) 588-3877 Email: sales@hdcom.com