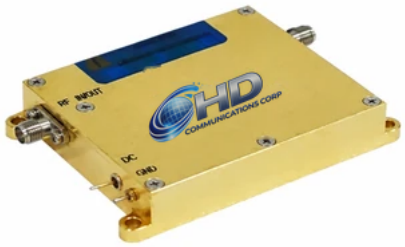
HD31929
SOLID STATE MID POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 18.0 GHz	
Power Output Psat	1 Watt Min	CW
Power Output P1dB	0.5 Watt Min	CW
Small Signal Gain	30 dB Min	
Power Gain Flatness	4 dB p-p Max	
Input Return Loss	-10 dB Typ	
Harmonics	-20 dBc Max	At rated Pout
Noise Figure	6.0 dB Max	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	12 VDC ±0.2V	
Current Consumption	0.9 Amp Max	At rated Pout
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[1]	

1 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	70 x 60 x 15 mm	Excluding connectors
Weight	300 gr.	
RF Connectors In/Out	Hi-Freq. SMA female	
DC Power / Interface Connector	Feed Thru	
Cooling	External Heatsink	Forced air required

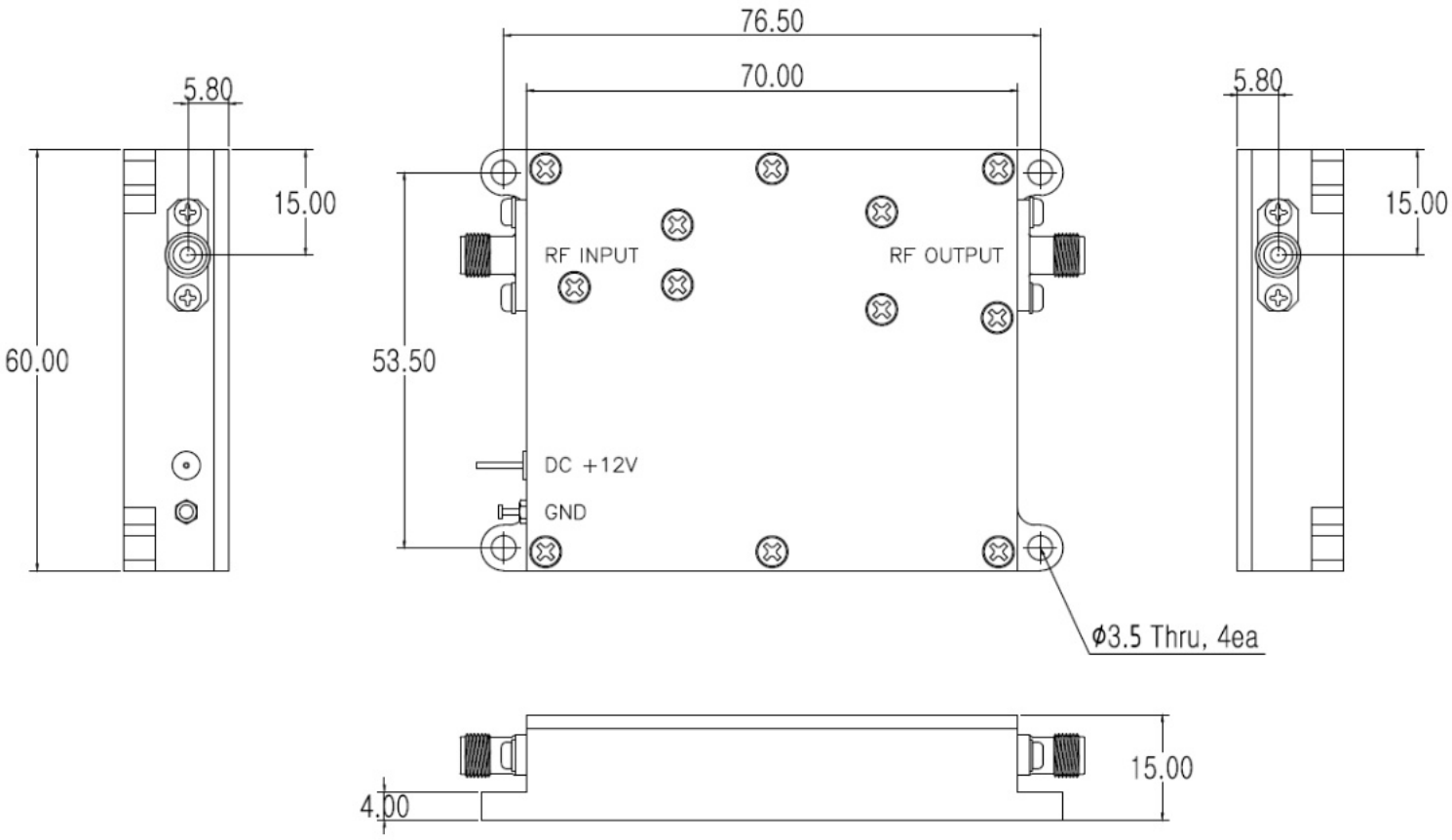
PIN ASSIGNMENT

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

338 Jericho Turnpike, Suite 387, Syosset NY, 11791 (631)-588-3877
www.rfamplifiers.com sales@hdcom.com. www.rfcomp.com
Specifications subject to change without notice. Specifications and drawings may vary with selected options.

HD31929
SOLID STATE MID POWER AMPLIFIER

OUTLINE DRAWING



338 Jericho Turnpike, Suite 387, Syosset NY, 11791 (631)-588-3877
www.rfamplifiers.com sales@hdcom.com. www.rfcomp.com
Specifications subject to change without notice. Specifications and drawings may vary with selected options.