



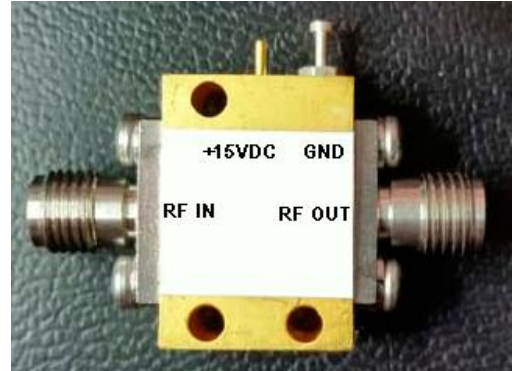
### Features and Benefits

- 4.0 to 8.0 GHz Frequency Range
- Gain Flatness  $<\pm 0.5\text{dB}$  (typical)
- Typical N.F.  $\leq 0.5\text{dB}$
- Advance PHEMT Technology
- Reverse Voltage Protection
- MIL-883, MIL45208 construction and reliability

### Typical Applications

- SATCOM
- Wireless

### Picture

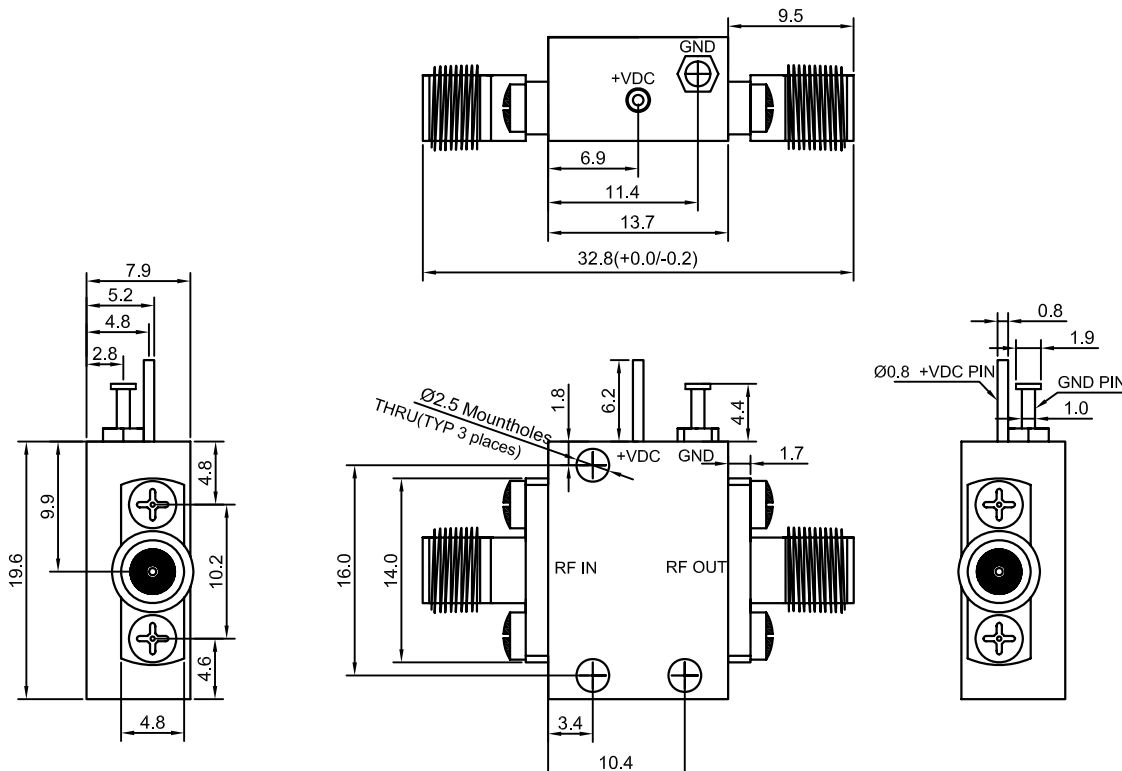


### Description

The LNA1913X-4GHz-8GHz-A is an octave band LNA with an industry low Noise Figure and Gain Flatness across the entire band. Lower NF options are also available in smaller sub-bands.

### Mechanical Drawing & Pin Connections

Drawing No:MD170004-1



Note: RF connectors: @Input/Output: FIELD-REPLACEABLE

Unit: mm  
1mm=0.0394inch



**Key Specifications at 23°C**

Parameter	Value			Unit	Note
	Min.	Typ.	Max.		
Frequency	4.0		8.0	GHz	Customizable
Gain	35	37	-	dB	Customizable
Gain Flatness	-	±0.5	±1.0	dB	Customizable
In/Out VSWR	-	1.5	2.0	-	Customizable
Output P1dB	+10	+11	-	dBm	Customizable
DC Power	+11	+15	+16	V@mA	140 mA typ
Noise Figure	-	0.5	0.6	dB	@23°C

**Absolute Maximum Ratings**

Parameter	Value			Unit	Note
	Min.	Typ.	Max.		
Operating Temperature (Case)	-40		+95	°C	95% humidity, non-condensing
Storage Temperature (Case)	-54		+115	°C	95% humidity, non-condensing
RF Input Power	-		+19	dBm	CW
Die Junction Temp (Tj)	-		+150	°C	For GaAs devices
Positive Supply Voltage			+16	V	At +V DC terminal
Negative Voltage	-		-10	V	Reverse Voltage

