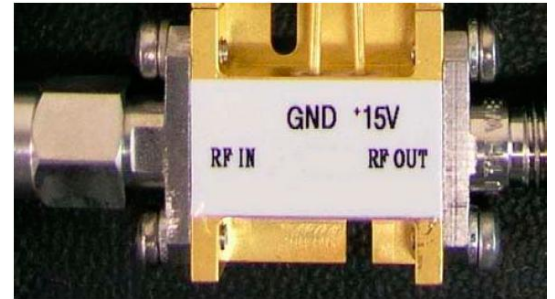




Features and Benefits

- 12.7 to 13.3GHz Frequency Range
- Typical Flatness $\leq \pm 1.0\text{dB}$
- Typical N.F. $\leq 1.0\text{dB}$
- Typical Gain $\geq 48\text{dB}$
- Hermetic Seal Option
- Advance PHEMT Technology
- Reverse Voltage Protection
- MIL-883, MIL45208 construction and reliability
- Typical 16.1% efficiency based on No Power Added (NPA) estimation

Picture



Typical Applications

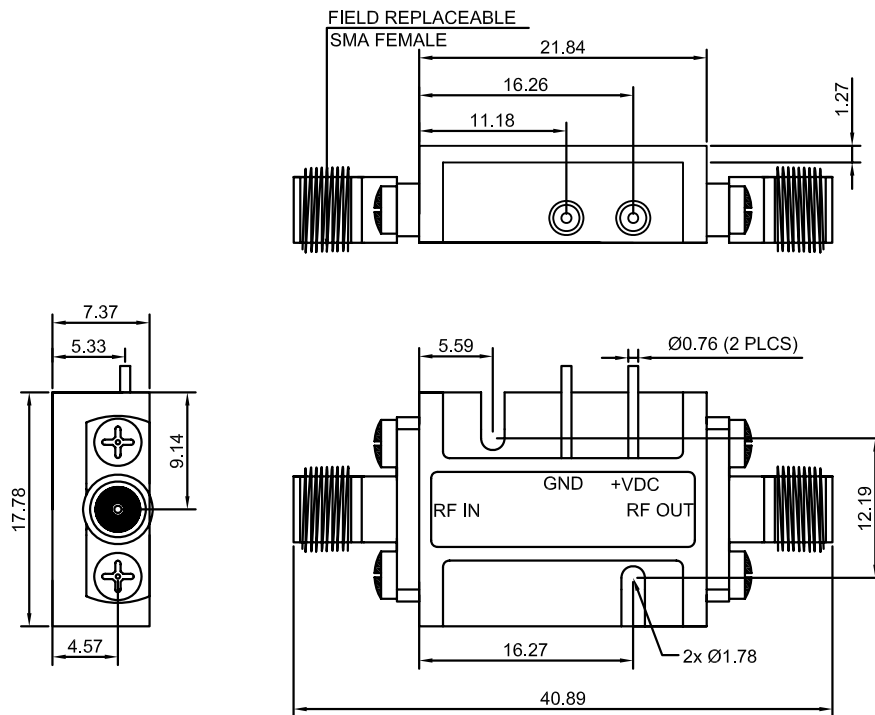
- Radar
- SATCOM
- Microwave Radio Systems
- Receiver Front End
- Test Equipment
- Telemetry

Description

The LNA2218X-12.7GHz-13.3GHz-A is a Low Noise Amplifier with low noise figure ($< 1.5\text{dB}$, 1.0dB typical). Lower NF options are also available with custom flatness, VSWR, P1dB, and outline.

Mechanical Drawing & Pin Connections

Drawing No:MD170005-1



Unit: mm
1mm=0.0394 inch



Key Specifications at 23°C

Parameter	Value			Unit	Note
	Min.	Typ.	Max.		
Frequency	12.7		13.3	GHz	Customizable
Gain	45	48	-	dB	Customizable
Gain Flatness	-	±1.0	±2.0	dB	Customizable
In/Out VSWR	-	2.00	2.00	-	Customizable
Output P1dB	+15	+19	-	dBm	Customizable
DC Power	+15	+15	+16	V@mA	250 mA Max. 210 mA typ
Noise Figure	-	1.0	1.5	dB	Customizable

Absolute Maximum Ratings

Parameter	Min.	Max.	Unit	Note
Operating Temperature (Case)	-54	+85	°C	95% humidity, non-condensing
Storage Temperature (Case)	-54	+115	°C	95% humidity, non-condensing
RF Input Power	-	19CW	dBm	Input RF Protection
Die Junction Temp (Tj)	-	+150	°C	For GaAs devices
Positive Supply Voltage		+16	V	At +V DC Pin
Negative Voltage	-	-10	V	Reverse Voltage

Typical Measured Data

