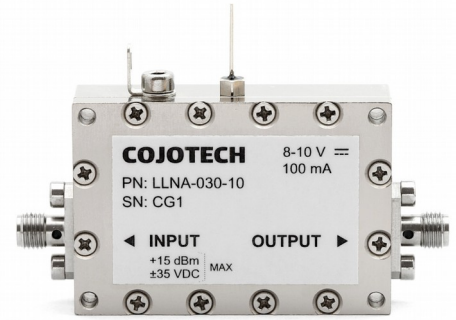


40 MHz to 3 GHz Limiting Low Noise Amplifier.

## Features

- 40 MHz to 3 GHz operating range.
- Very low noise (0.9 dB NF @ 1 GHz).
- +10 dBm maximum output power ( $P_{OMAX}$ ).
- 38 dB gain @ 100 MHz; 31 dBm gain @ 1 GHz.
- Reverse bias protection.



## Description

The Cojotech LLNA-030-10 is a limiting low noise amplifier, that operates over the band of 40 MHz to 3 GHz, and provides 10 dBm of saturated output power.

By bringing the output characteristics down in amplitude, it is able to match the input requirements of receivers with very sensitive frontends. This property, coupled with the very low noise figure, it makes it an ideal candidate for such receivers, which can be damaged by other LNAs.

## Warranty

This product benefits from a 2-year warranty against defects in materials and workmanship.

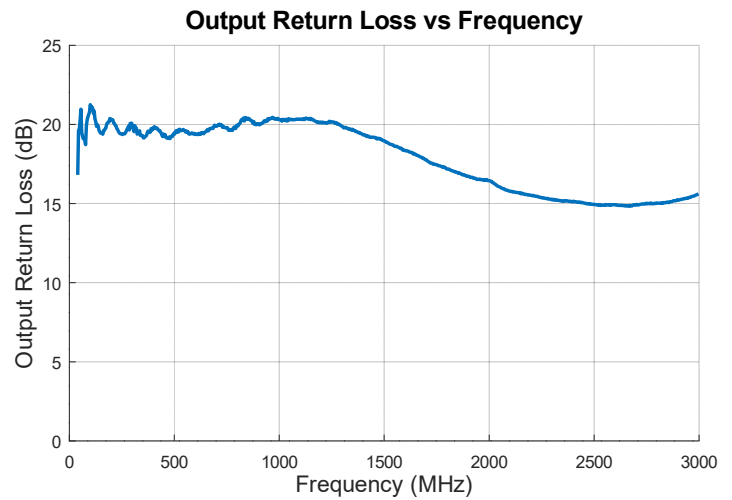
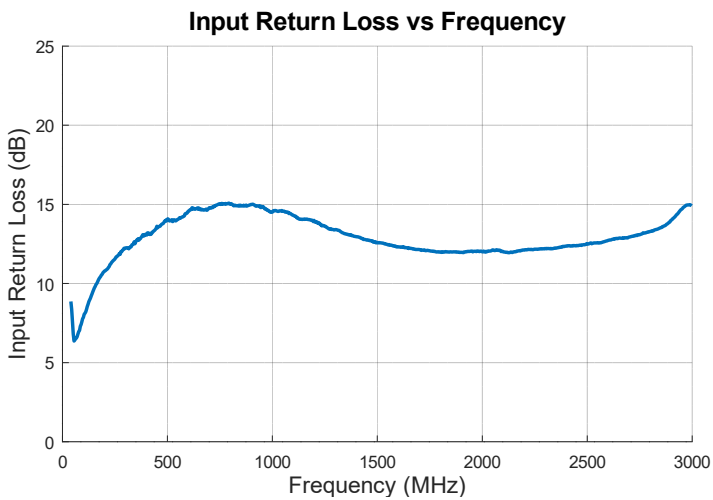
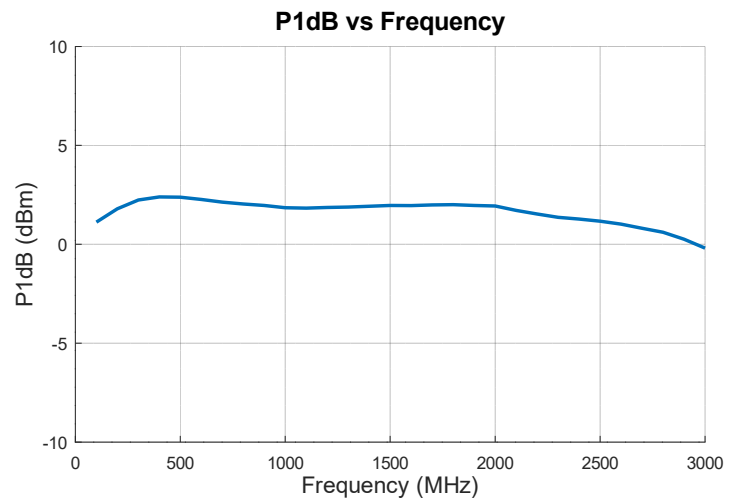
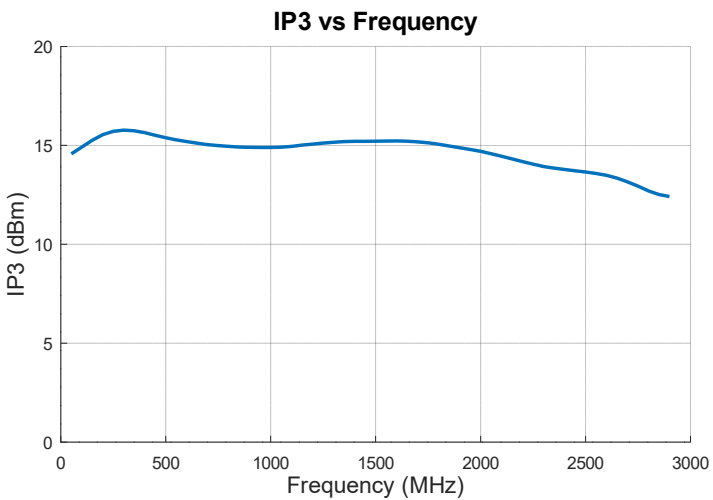
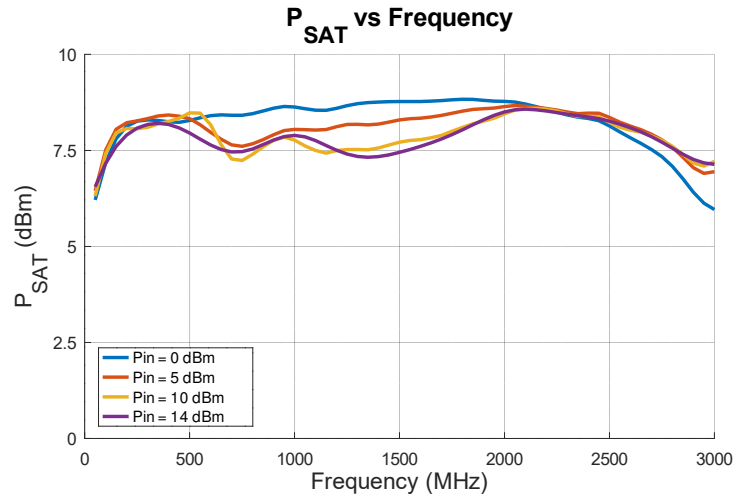
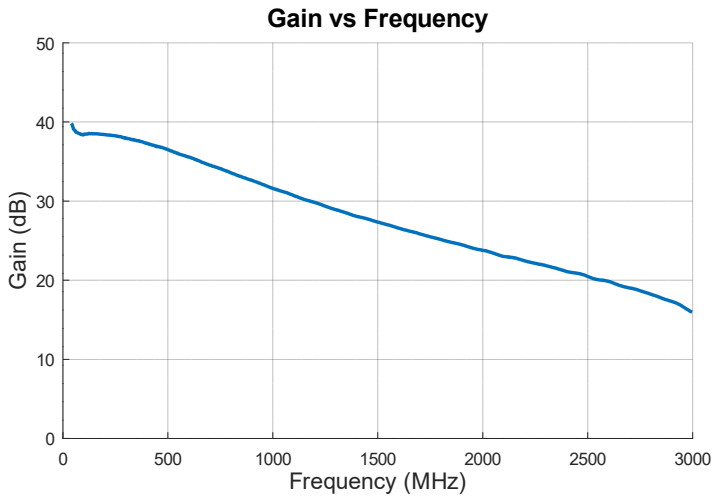
## Absolute Maximums

Parameter	Ratings
RF Input Power	+15 dBm
RF Input DC Voltage	±35 V
Supply Voltage	+9 V

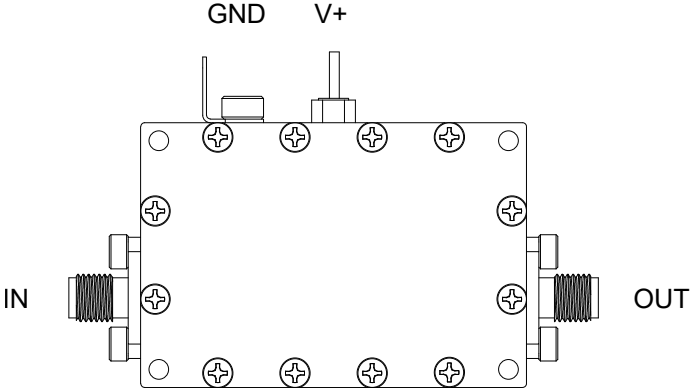
## Electrical Specifications at 25°C

Parameter		Min.	Typ.	Max.	Unit
Frequency Range		40		3000	MHz
Small Signal Gain	0.04 GHz		40		dB
	0.1 GHz		38		
	0.5 GHz		36		
	1 GHz		31		
	1.5 GHz		27		
	2 GHz		23		
	2.5 GHz		20		
	3 GHz		15		
Noise Figure	0.1 GHz		0.7		dB
	1 GHz		0.9		
	2 GHz		1.4		
Input Return Loss	0.1 GHz		8		dB
	1 GHz		15		
	2 GHz		13		
	3 GHz		14		
Output Return Loss	0.1 GHz		21		dB
	1 GHz		20		
	2 GHz		16		
	3 GHz		15		
Saturated Output Power ( $P_{SAT}$ )			8.5		dBm
Maximum Output Power ( $P_{OMAX}$ )				10	dBm
1 dB Compression Point (P1dB)			1		dBm
Third Order Intercept Point (IP3)			14		dBm
Supply Voltage		8	9	10	V
Supply Current			61		mA

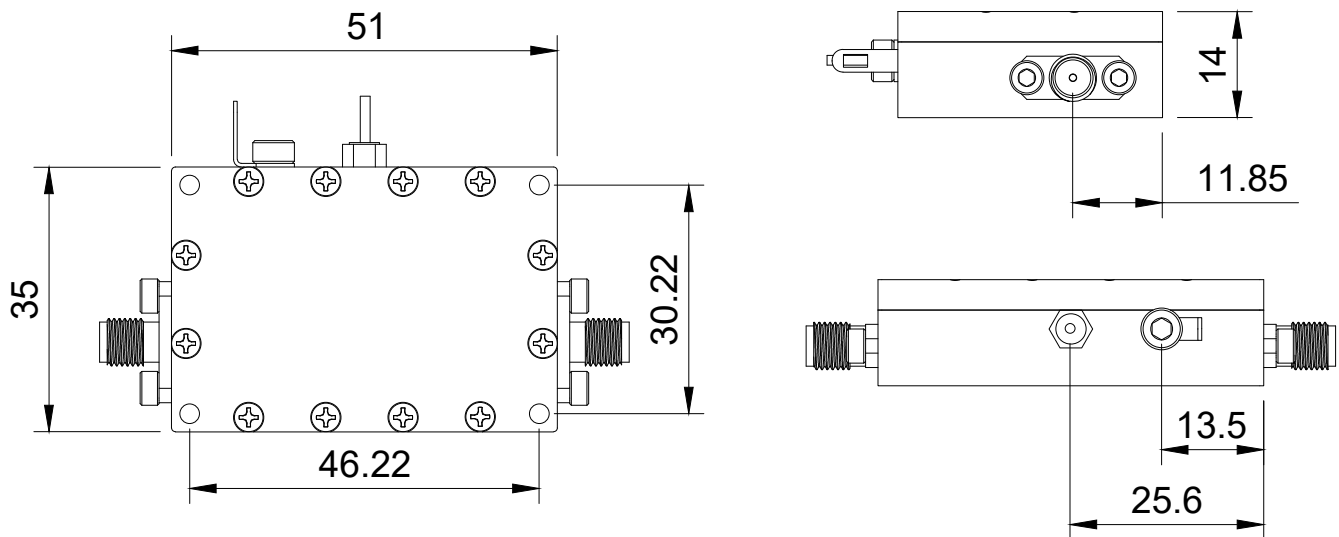
# Typical Performance Characteristics



# Pin Configuration



## Outline Dimensions



Dimensions are in mm.

Mounting holes are 2.6 mm in diameter, not threaded.

Weight: 57 g.

## Mechanical Properties

Description	Material	Finish
Body	Aluminium	Nickel plated
SMA Body	Stainless Steel	Passivated
SMA Contact	Beryllium copper	Gold plated
Dielectric	PTFE	

Notes:

- 1). Unless otherwise stated, all specifications are nominal.
- 2). The information contained in this document is accurate to the best of our knowledge. We reserve the right to update it, with new information or corrections, without notice.