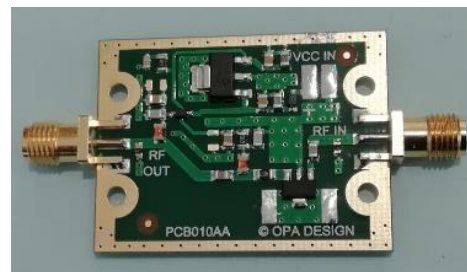


WIDE BAND LOW NOISE AMPLIFIER



TECHNICAL DATA SHEET

OPA_WBLNA

OPA_WBLNA is a good compromise between low noise, gain and high dynamic range. It can be used from 50MHz to 1500MHz for low noise applications and up to 2500MHz for amplification stage. Due to the RF performance, the ESD protection and the power supply capability, this device can be used in a wide range of professional and hobbyist applications.

Features:

- Frequency Range: 50 – 2500MHz
- PGA-103+ MMIC based amplifier
- ESD Static protection
- Power Supply: Coaxial Cable or external supply
- Power ON LED indicator

Specifications @ +25 °C, ZS = ZL = 50

Parameter	Unit	Minimum	Typical	Maximum
Frequency	MHz	50		2500
Gain @ 144MHz Gain @ 432 MHz Gain @ 1296MHz Gain @ 2400MHz	dB		24.4 20.8 13.2 8.1	
P1dBm Output @ 144MHz P1dBm Output @ 432 MHz P1dBm Output @ 1296MHz P1dBm Output @ 2400MHz	dBm	20	18 19.8 20.3 19.5	22
Noise Figure @ 144MHz Noise Figure @ 432MHz Noise Figure @ 1296MHz	dB		0.42 0.49 0.75	
DC Power Supply	V	8		14
Supply current	mA		70	
Input/output impedance	Ohm		50	

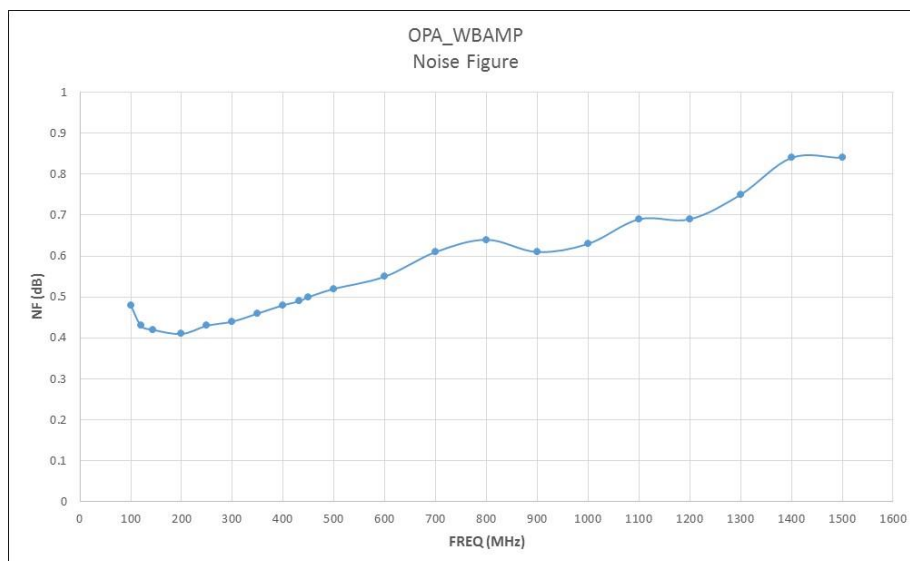
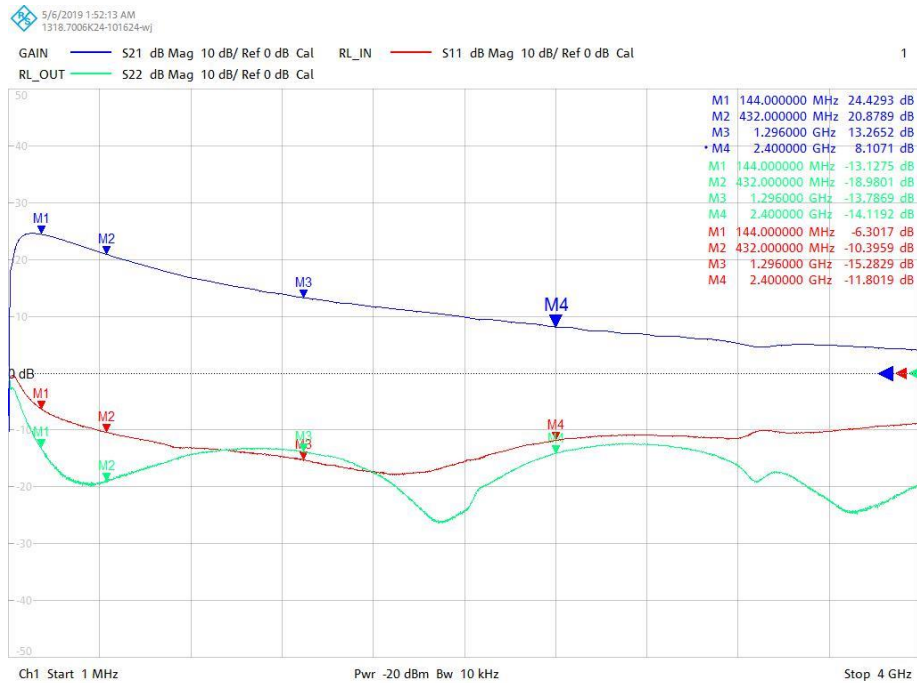
WIDE BAND LOW NOISE AMPLIFIER



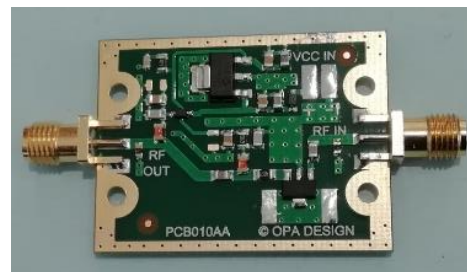
TECHNICAL DATA SHEET

OPA_WBLNA

Typical performance data:



WIDE BAND LOW NOISE AMPLIFIER



TECHNICAL DATA SHEET

OPA_WBLNA

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
DC Input Power	14V
Operating Temperature	-20°C to +65°C
Storage Temperature	-40°C to +85°C

Outline

