

TDLNA02050

2.0-5.0 GHz Low Noise Amplifier for Military Applications



Functional Overview

The TDLNA02050 is a high frequency, broadband ultra-low Noise Amplifier (LNA). With a simple input and output match, this LNA can be tuned for different frequency bands targeting LTE (small cells and infrastructure), radar and any other applications requiring low noise, high gain, and linearity.

With application-specific biasing, TDLNA002050 is part of Teledyne e2v's new, high performance harsh environment MMIC solutions suitable for use as the first-stage LNA for advanced satellite or military communication receivers or radar systems.

The TDLNA02050 is packaged in a compact, low-cost Dual Flat No Lead (DFN) 2x2x0.75mm, 8 pin plastic package.

Evaluation kits are available now!

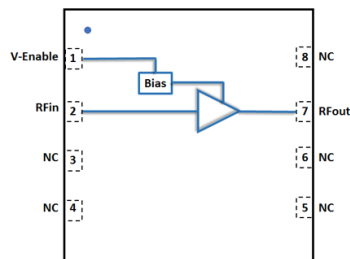
Features

- Small signal gain @ 3600MHz: 17.5dB
- NF @ 3600MHz: 0.4dB
- P1dB @ 3600MHz: 19.5dBm
- 5V Typical operating voltage
- Operating frequency: 2.0 to 5.0GHz

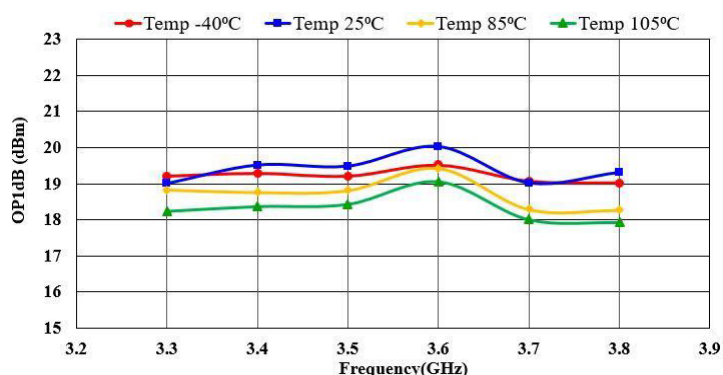
Orderable Detail

Orderable	Description	Package	Package
TDLNA02050-EP	TDLNA02050 Production Units	8-lead CDFN	Tray
TDLNA02050-EVB-A	Tuned Evaluation Board, 3300 -3800MHz	Evaluation kit	One per box
TDLNA02050-EVB-B	Tuned Evaluation Board, 3700 -4200MHz	Evaluation kit	One per box
TDLNA02050-EVB-C	Tuned Evaluation Board, 4400 -5000MHz	Evaluation kit	One per box

Functional Block Diagram



Typical Performance



Noise Figure (EVB) vs Freq