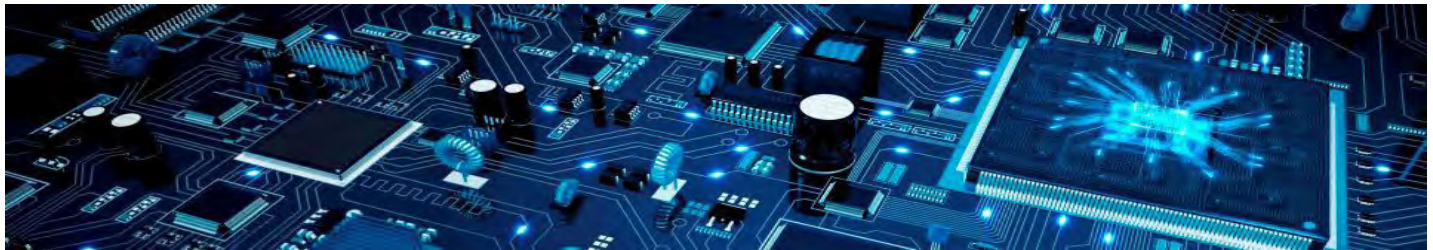


# TDLNA0430

0.4 – 3.0 GHz Ultra Low Noise Amplifier for Space and Military Applications



## Functional Overview

The TDLNA0430SEP is a broadband, ultra-low Noise Amplifier (LNA) providing high gain and linearity. With a simple input and output match, this LNA can be tuned for different frequency bands targeting LTE (small cells and infrastructure) and any other applications requiring low noise, high gain, and linearity. For >3GHz frequency band, TDLNA0430SEP can be considered.

With application-specific biasing, TDLNA0430SEP 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 TDLNA0430SEP is packaged in a compact, low cost Dual Flat No Lead (DFN) 2x2x0.75mm, 8 pin plastic package.

**Evaluation kits are available now!**

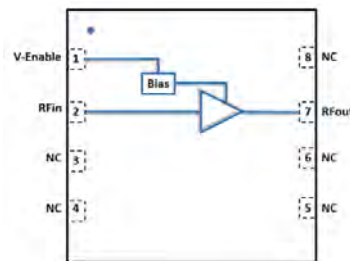
## Features

- Small signal gain @ 1800 MHz: 21.5 dB
- NF @ 1800 MHz: 0.35 dB
- P1dB @ 1800 MHz: 18.5 dBm
- 5 V Typical operating voltage
- Operating frequency: 0.4 to 3.0 GHz

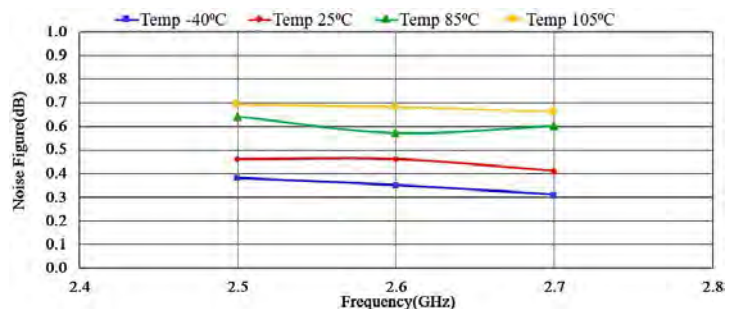
## Orderable Detail

Orderable	Description	Package	Package
TDLNA0430-SEP	TDLNA0430 Production Units	8-lead CDFN	Tray
TDLNA0430-EVB-A	Tuned Evaluation Board, 1800 - 2100MHz	Evaluation kit	One per box
TDLNA0430-EVB-B	Tuned Evaluation Board, 2500 - 2700MHz	Evaluation kit	One per box
TDLNA0430-EVB-C	Tuned Evaluation Board, 500 - 1200MHz	Evaluation kit	One per box

## Functional Block Diagram



## Typical Performance



Noise Figure (EVB) vs Freq