

# TDLNA02093

1.0-6.0 GHz Low Noise Amplifier for Space Applications



## Functional Overview

The TDLNA002093 ultra-low noise amplifier offers industry-leading noise figure (NF) and gain performance and can be tuned over a wide range of frequencies from roughly 1.0 to 6.0 GHz.

With application-specific biasing, TDLNA002093 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.

It can be biased over a range of V<sub>dd</sub> from 2.7 to 5.0 volts and typical I<sub>ddq</sub> values from 30 mA to 100 mA.

The device uses a hermetic 6-pin DFN package and pin out and the device can be screened for military and space applications per customer requirements.

**Evaluation kits are available now!**

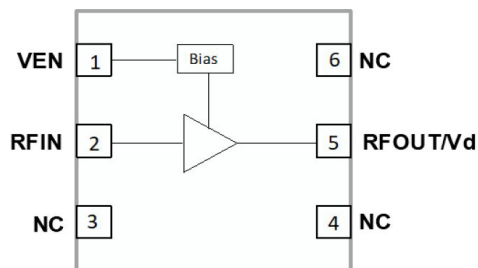
## Features

- EVK Noise Figure (NF): 0.37 dB
- Gain: 21.0 dB
- OP1dB: 19.0 dBm
- OIP3: 35.5 dBm
- Flexible Bias Voltage and Current
- Process: GaAs pHEMT
- 6 Lead 3.0 mm x 3.0 mm DFN Package

## Orderable Detail

Orderable	Description	Package	Package
TDLNA02093-01	TDLNA02093 Engineering samples	6-lead CDFN	Tray
TDLNA02093-11	TDLNA02093 Flight units	6-lead CDFN	Tray
TDLNA02093-00	TDLNA02093 Evaluation kit	Evaluation kit	One per box

## Functional Block Diagram



## Typical Performance

