

TDLNA02093

1.0-6.0 GHz Low Noise Amplifier for Military and Industrial 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 military communication receivers.

It can be biased over a range of V_{dd} from 2.7 to 5.0 volts and typical I_{ddq} values from 30 mA to 100 mA.

The device uses a 6-pin plastic DFN package and pin out and the device is screened per EEE-INST-002 Level 3 for military and Industrial applications.

Evaluation kits are available now!

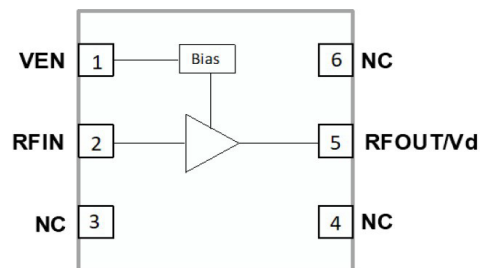
Features

- 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 1.5 mm x 1.5 mm Plastic DFN Package

Orderable Detail

Orderable	Description	Package	Package
TDLNA02093-EP	TDLNA02093 Production Units	6-lead PDFN	Tray

Functional Block Diagram



Typical Performance

