

### Description

The F0429 is a 1400MHz to 6000MHz High Gain Broadband RF Amplifier. The combination of low noise figure and high linearity performance allows the device to be used in both receiver and transmitter applications.

The F0429 is designed to operate with a single 5V or 3.3V power supply using a nominal 75mA of  $I_{CC}$ .

The F0429 is packaged in a  $2 \times 2$  mm, 8-DFN with  $50\Omega$  single-ended RF input and output impedances for ease of integration into the signal path.

### Typical Applications

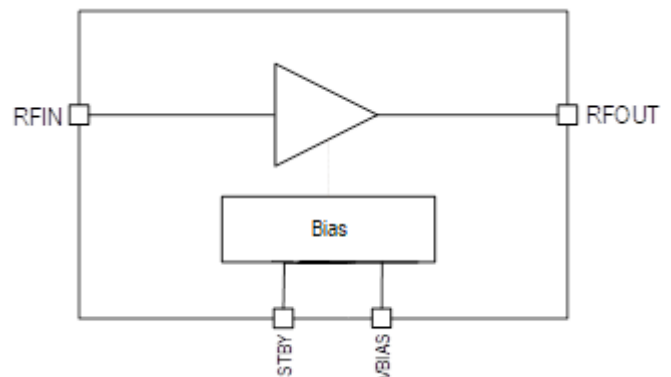
- 5G / MIMO base stations
- 4G TDD and FDD base stations
- 2G/3G base stations
- Repeaters and DAS
- Point to point infrastructure
- Public safety infrastructure
- Military handhelds

### Features

- RF range: 1400MHz to 6000MHz
- Pin-compatible with the F0424 600MHz to 4200MHz RF Amplifier
- Gain = 19dB
- Output P1dB = +20dBm
- 3.3V or 5V power supply
- $I_{CC} = 75\text{mA}$
- 2mA standby current
- $50\Omega$  input and output impedances
- 1.8V and 3.3V logic support for STBY control
- Operating temperature ( $T_{EP}$ ) range:  $-40^\circ\text{C}$  to  $+115^\circ\text{C}$
- $2 \times 2$  mm, 8-DFN package

### Block Diagram

Figure 1. Block Diagram



## Ordering Information

Orderable Part Number	Package	MSL Rating	Shipping Packaging	Temperature
F0429NTGI	2 × 2 × 0.75 mm 8-DFN	1	Tray	-40° to +115°C
F0429NTGI8	2 × 2 × 0.75 mm 8-DFN	1	Reel	-40° to +115°C
F0429EVB	Evaluation Board			

## Revision History

Revision Date	Description of Change
April 27, 2020	Initial release.

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