

Description

The F1471 is a high linearity RF Driver Amplifier designed to operate within the 400MHz to 4200MHz frequency band. Utilizing a single 5V power supply and only 130mA of I_{CO} , the F1471 provides 17dB of gain and +28.5dBm OP1dB.

The F1471 is packaged in a 3 × 3 mm, 16-VFQFPN package, with matched 50Ω input and output impedances for ease of integration into the signal path.

Typical Applications

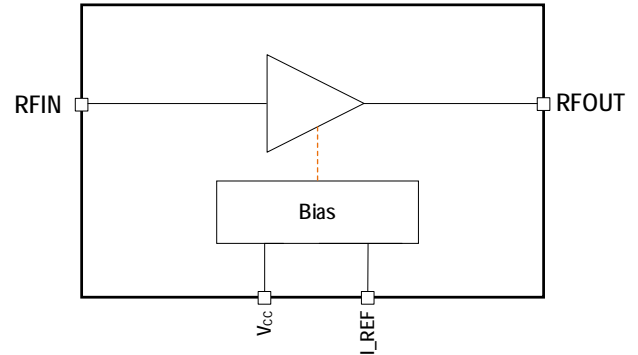
- 4G / 5G Cellular Base stations
- Multi-mode, Multi-carrier Transmitters
- Active Antenna Systems
- General Purpose Wireless

Features

- RF range: 400MHz to 4200MHz
- 17dB typical gain
- +28.5dBm OP1dB
- 5V power supply
- Adjustable DC Bias
- Bias control compatible for 3.3V and 5V operation
- 50Ω Single-ended input and output impedances
- Standby Mode for power savings
- Internal DC Overvoltage protection
- Internal RF Overdrive protection
- On-Chip ESD protection
- Operating temperature (T_{EP}) range: -40°C to +115°C
- 3 × 3 mm, 16-VFQFPN package

Block Diagram

Figure 1. Block Diagram



Ordering Information

Orderable Part Number	Package	MSL Rating	Shipping Packaging	Temperature
F1471NTGI	3 × 3 × 0.75 mm 16-VFQFPN	1	Tray	-40° to +115°C
F1471NTGI8	3 × 3 × 0.75 mm 16-VFQFPN	1	Reel	-40° to +115°C
F1471EVB-0P5	Evaluation Board 400MHz – 500MHz Tune			
F1471EVB-0P9	Evaluation Board 700MHz – 1100MHz Tune			
F1471EVB-2P1	Evaluation Board 1700MHz – 2300MHz Tune			
F1471EVB-2P6	Evaluation Board 2300MHz – 2900MHz Tune			
F1471EVB-3P6	Evaluation Board 3300MHz – 3900MHz Tune			
F1471EVB-4P0	Evaluation Board 3800MHz – 4200MHz Tune			

Revision History

Revision Date	Description of Change
April 28, 2020	Initial release.

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Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,
Koto-ku, Tokyo 135-0061, Japan
www.renesas.com

Contact Information

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit:
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