



Guerrilla RF's Releases New Broadband, Low Noise Linear Amplifier with Integrated Bypass and High Off-state Isolation

*Cost-effective LNA Features Industry-leading RF Capability;
Optimal for Demanding Small Cell, Cellular Booster and Repeater Applications*

LAS VEGAS – Sept. 10, 2015 – Guerrilla RF Inc., a leading provider of high performance MMICs, today introduces a new broadband, low noise linear amplifier with integrated bypass that covers a wide bandwidth with minimal external parts – yielding a compact, low-cost solution. This device integrates low noise figure, high linearity and low-loss bypass functionality into a small application footprint, making it ideal for demanding small cell, cellular booster and repeater transmit-receive applications in the 700 – 3800 MHz frequency bands.

“The GRF4042 is the initial device in a growing family of high performance amplifiers offering bypass functionality,” said Alan Ake, vice president of applications and technical marketing at Guerrilla RF. “All of our devices featuring bypass also incorporate our Guerrilla Armor™ technology which provides high off-state isolation even in the presence of high RF input powers. This isolation is especially useful in TDD systems in which significant transmitter RF power can leak into the transceiver receive path. When transmitting in a TDD system, the powered-down LNA chain needs to stay off regardless of the level of incident power from the PA. Our GRF4042 addresses this requirement nicely with off-state S (2,1) typically less than -30 dB with input powers in excess of +15 dBm.”

According to Research and Markets, the overall wireless network infrastructure market will witness tremendous growth over the coming years. At a compound annual growth rate of over 5 percent, the market will account for over \$104 billion in annual spending by the end of 2020.

About Guerrilla RF's New LNA

The [GRF4042](#) provides sub 1.0 db noise figure, excellent linearity, adjustable current, low-loss bypass and Guerrilla Armor™. With integrated DC blocking caps on the RF input/output and internal pre-matching to 50 ohms, the device typically requires little or no external matching.

Pricing and Availability

Samples and evaluation boards are available now, with production planned for the fourth quarter. Pricing for 10,000 parts is \$0.98 each.

About Guerrilla RF

Guerrilla RF provides high performance monolithic microwave integrated circuits (MMICs) to wireless infrastructure original equipment manufacturers in multiple market segments, including enterprise/carrier-class WiFi access points, small cells, wireless backhaul and cellular repeaters. Headquartered in Greensboro, N.C., the company was founded in April 2013 by Ryan Pratt. To date it has raised \$3.5 million in funding and introduced over 30 products. All trademarks are the property of their respective owners. For more information please visit <http://guerrilla-rf.com> or follow the company on [LinkedIn](#).

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