



## **Guerrilla RF's New High Power, Low Noise Amplifier Features Unmatched Noise Figure, OP1dB and OIP3**

*Designed for High Performance Linear Transmit Driver Amplifiers  
and Multi-stage LNAs Spanning 700 – 3800 MHz*

**GREENSBORO, N.C. – February 9, 2015** – Guerrilla RF Inc., a leading provider of high performance MMICs, today introduces the newest member of its high power, low noise amplifier (Power-LNA) family that offers a best-in-class union of low noise figure, OP1dB and high OIP3 for high performance linear transmit driver amplifiers and multi-stage LNAs. This device can cover 1700-2700 MHz with a single match and can be tuned to cover 700-3800 MHz.

“Guerrilla RF is excited to add the new GRF5020 to our growing family of Power-LNA devices that enable high performance, cost-effective design solutions. Over the coming months, we will be adding several new parts to this family which will push the output power capability beyond 1 Watt and provide frequency coverage to 6.0 GHz to support demanding 802.11ac PA applications,” said Alan Ake, vice president of applications and technical marketing at Guerrilla RF. “Currently, the Power-LNA product family facilitates the creation of rugged, high linearity, ultra-low noise figure architectures that are essential for today’s challenging LTE system requirements.”

According to Research and Markets, the overall wireless network infrastructure market will witness tremendous growth over the coming years. Growing 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 Power Low Noise Amplifier**

The [GRF5020](#) Power-LNA yields outstanding OP1dB to +28.5 dBm, OIP3 values to +50 dBm and sub 1 dB noise figure (NF). In addition to use as a PA or linear driver, it is well suited to demanding first, second or third stage LNA applications requiring high linearity, ruggedness and low NF. With a single match, GRF5020 covers 1700 – 2700

MHz yielding outstanding RF performance over the band. Simple matching, flexible supply voltages and adjustable bias current allow for optimum efficiency and device reuse within a design and across multiple platforms.

It is housed in 3.0 x 3.0 x 0.55 millimeter, 16-pin plastic QFN package.

### **Pricing and Availability**

GRF5020 samples and evaluation boards are available now, with full production scheduled for the second quarter. Pricing for 10,000 parts is \$3.22 each.

### **About Guerrilla RF**

Guerrilla RF provides high performance monolithic microwave integrated circuits to wireless infrastructure original equipment manufacturers for greater coverage area and higher data rates. With the company's patented Guerrilla Armor™ technology, team of industry veterans and the best semiconductor process technologies, Guerrilla RF is making a big impact across multiple market segments including enterprise and carrier-class WiFi access points, small cells, wireless backhaul and defense. Guerrilla RF is headquartered in Greensboro, N.C. 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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