



2001 Butterfield Road, Suite 1800
Downers Grove, IL 60515

P 630 262 6800
F 630 262 6850
richardsonrfpd.com

NEWS RELEASE

FOR DETAILS CONTACT
Gavin Smith
Director, Strategic Marketing
gavin.smith@richardsonrfpd.com
P 630 262 6800

Richardson RFPD Introduces Guerrilla RF GaN-on-SiC HEMTs for Wideband RF Applications

DOWNTON GROVE, III. (December 8, 2025) – Richardson RFPD, Inc., an Arrow Electronics company, now offers full design support and availability for two new high-performance GaN RF power transistors from Guerrilla RF: the **GRF0020** and **GRF0030**. These [GaN-on-SiC HEMTs](#) deliver exceptional efficiency and bandwidth for demanding RF applications.

Unmatched Performance for RF Systems

- [**GRF0020**](#)
 - Frequency Range: DC to 7.0 GHz
 - Output Power (P3dB): 30 W @ 50 V; 19 W @ 28 V
 - Saturated Gain: 13.5 dB
 - Drain Efficiency: 51%
 - Saturated Output Power: 45.1 dBm
- [**GRF0030**](#)
 - Frequency Range: DC to 6.0 GHz
 - Output Power (P3dB): 50 W @ 50 V; 25 W @ 28 V
 - Saturated Gain: 12.7 dB
 - Drain Efficiency: 60%
 - Saturated Output Power: 46.6 dBm

Both devices operate on 50 V supply rails and support 28 V operation for flexibility. They are housed in industry-standard **3 mm x 3 mm QFN-16 surface-mount packages** and are also available as bare die: GRF0020D and GRF0030D.

Applications



- Cellular Infrastructure
- Radar Systems
- Wireless Communications
- Test & Measurement Equipment

Why GaN-on-SiC?

GaN-on-SiC technology offers superior power density, thermal performance, and efficiency compared to traditional LDMOS or GaAs solutions, making these devices ideal for next-generation RF designs.

Learn More

For datasheets, pricing, and online purchasing, visit Richardson RFPD: [GRF0020](#) & [GRF0030](#). To learn about additional products from Guerrilla RF, visit the [Guerrilla RF storefront](#) webpage. Worldwide customers can find local sales support [here](#).



About Richardson RFPD

Richardson RFPD, an Arrow Electronics company, is a global leader in RF, wireless, IoT, and power technologies. With deep technical expertise and strong supplier relationships, Richardson RFPD supports customers from prototype to production. Learn more at [richardsonrfpd.com](#).