Introducing New High-Efficiency GaN RF Amplifiers from Sumitomo: Perfect for Phased Array and L/S Band Radar Systems

Description

Component Distributors, Inc. (CDI) is excited to announce the release of two new high-efficiency GaN RF amplifiers from Sumitomo Electric Device Innovations. These compact and powerful devices-**SGNL005Z2** and **SGNL015Z2K-R** are designed for demanding radar applications, including phased array radar systems both the L and S bands. Both amplifiers offer impressive efficiency, high output power, and a convenient surface-mount packaging option, making them a valuable addition to our lineup of cutting-edge RF produc

Meet the New Devices: **SGNL005Z2K-R** and **SGNL015Z2K-R** Sumitomoâ€™s GaN RF amplifiers bring efficiency and reliability to radar and communication systems.

Hereâ€™s a closer look at their specifications:

SGNL005Z2K-R:

- Frequency Range: DC to 5 GHz
- Typical Output Power: 6.8W
- Saturated Gain: 12.8 dB
- Efficiency: 52%
- Package: Compact 4mm x 4.5mm plastic surface-mount

SGNL015Z2K-R:

- Frequency Range: DC to 3.8 GHz
- Typical Output Power: 17W
- Saturated Gain: 11.9 dB
- Efficiency: 56%
- Package: 4mm x 4.5mm plastic surface-mount

With their high output power, saturated gain, and efficiency, these amplifiers are ideal as pre-driver stages and S band radar systems and as final stage amplifiers in phased array radar applications.

Why Choose GaN for Radar Applications?

Gallium Nitride (GaN) technology is favored in radar systems due to its high power density, superior efficie and ability to operate across a broad range of frequencies. GaN amplifiers like the **SGNL005Z2K-R** and **SGNL015Z2K-R** support high-speed operation with minimal heat generation, allowing for compact design without sacrificing performance. This efficiency translates to lower cooling requirements and longer operat life, critical factors in the demanding environments where radar systems are often deployed.

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Category

1. Ewave
2. RF-Microwave
3. Sumitomo Electric Device Innovations U.S.A.

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