

RF > Aerospace & Defense > CMPA1E1F060

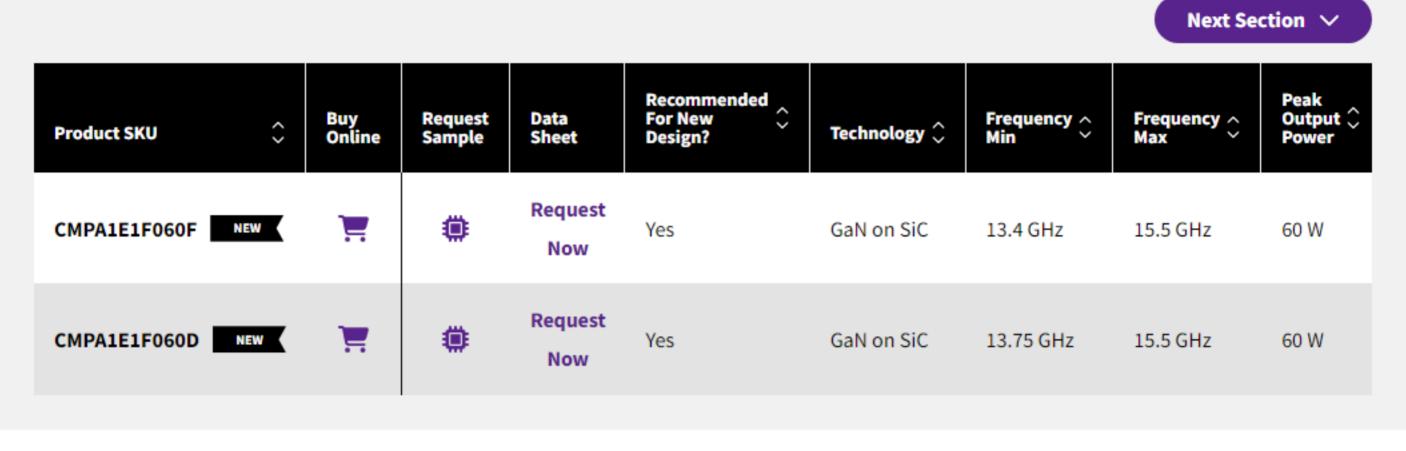
CMPA1E1F060



13.75 - 15.5 GHz, 60W GaN MMIC HPA

Wolfspeed's CMPA1E1F060 MMIC HPA family supports up to 60 W utilizing Wolfspeed's high performance, 0.15um GaN on SiC production process. The product family operates from 13.4 – 15.5 GHz and targets lower Ku-band radar applications, as well as, satellite uplinks and common datalink applications. Under saturation, the CMPA1E1F060 family achieves 60 W of typical output power with 26 dB of large signal gain and offered in multiple platforms. Targeting an IM3 level of -25 dBc or better, this HPA delivers 25 W of output power with 31 dB of gain while maintaining high efficiency. The CMPA1E1F060 family provides superior RF performance and thermal management and is offered in bare die and flange package solutions allowing the user to optimize their SWaP-C analysis in meeting next generation requirements.

Products



High Linear Power and Efficiency

Features

- Supports High Video Bandwidth Requirements
 Optimized Platform Offerings
- openingo
- High SWaP-C Analysis
 Superior Thermal Management

Benefits

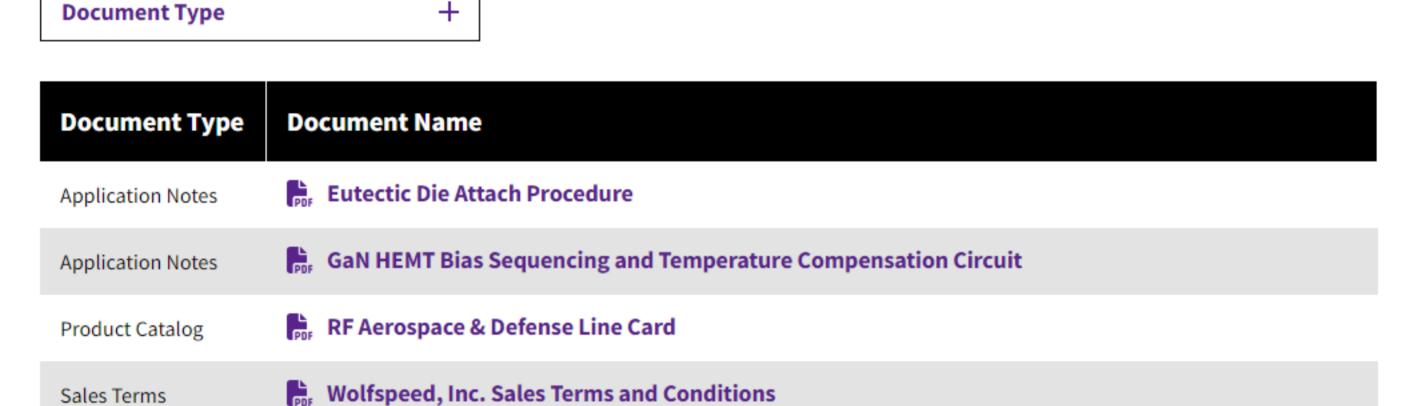
- .
- Satellite Uplink
 - Common Data Links

Applications

- Military and Commercial Radar

Technical & Sales Documents

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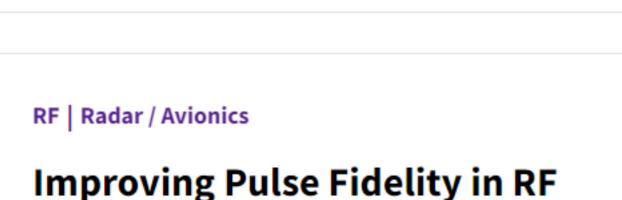
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A radar system designer's most coveted objectives are achieving a long range, adequate resolution to distinguish objects in close proximity to each other, and the ability to not only determine target velocities but target types in order to help differentiate friendlies from adversaries. A combination of both approaches is essential, and engineers can design for peak power points of the load-pull simulation while also paying attention to other parts of the circuit for baseband signal fidelity.

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demands on PA design

and improved thermal conductivity.

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achieving higher linearization, greater power density

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