

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

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Product SKU 	Buy Online	Request Sample	Data Sheet	Recommended For New Design? 	Technology 	Frequency Min 	Frequency Max 	Peak Output Power 
CMPA1E1F060F <div>NEW</div> 		 Request Now		Yes	GaN on SiC	13.4 GHz	15.5 GHz	60 W
CMPA1E1F060D <div>NEW</div> 		 Request Now		Yes	GaN on SiC	13.75 GHz	15.5 GHz	60 W

- ✓

Features

 - High Linear Power and Efficiency
 - Supports High Video Bandwidth Requirements
 - Optimized Platform Offerings
- +

Benefits

 - High SWaP-C Analysis
 - Superior Thermal Management
- ⚙️





Applications

 - Satellite Uplink
 - Common Data Links
 - Military and Commercial Radar


Technical & Sales Documents	Tools & Support
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Document Type

+


Document Type	Document Name
Application Notes	<div> Eutectic Die Attach Procedure</div>
Application Notes	<div> GaN HEMT Bias Sequencing and Temperature Compensation Circuit</div>
Product Catalog	<div> RF Aerospace & Defense Line Card</div>
Sales Terms	<div> Wolfspeed, Inc. Sales Terms and Conditions</div>

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Thermal Considerations for High-Power GaN RF Amplifiers

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Wolfspeed RF GaN meets 5G demands on PA design

Wolfspeed GaN on SiC products can replace inefficient silicon parts in 5G cellular transmitter amplifiers, achieving higher linearization, greater power density and improved thermal conductivity.

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Improving Pulse Fidelity in RF Power Amplifiers

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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