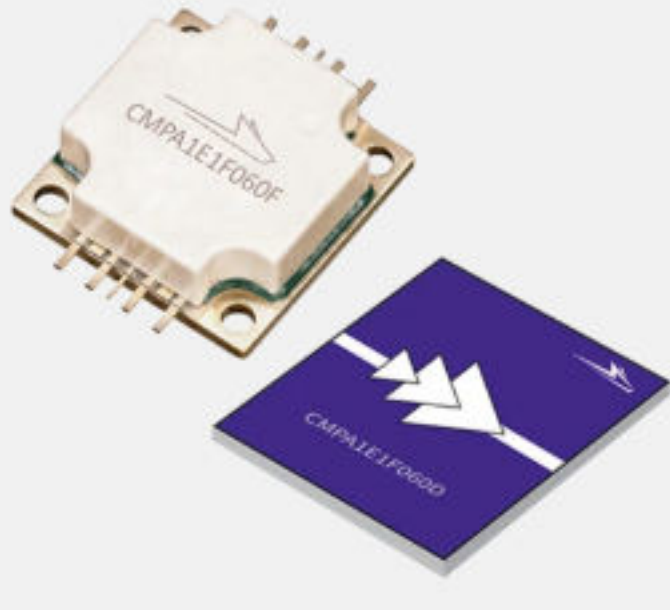


CMPA1E1F060



13.75 - 15.5 GHz, 60W GaN MMIC HPA

Wolfspeed’s CMTA1E1F060 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 CMTA1E1F060 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 CMTA1E1F060 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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CMTA1E1F060F NEW		Request Now	Yes		GaN on SiC	13.4 GHz	15.5 GHz	60 W
CMTA1E1F060D NEW		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

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Document Type

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

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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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