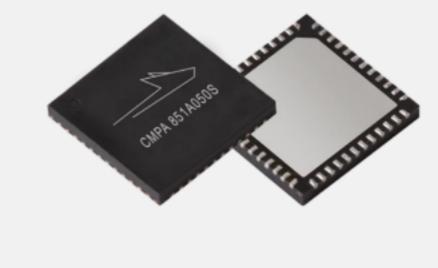


Products > RF > Aerospace & Defense > CMPA851A050

CMPA851A050









8.5 - 10.5 GHz GaN MMIC HPA

Wolfspeed's CMPA851A050 MMIC HPA family supports up to 80 W utilizing Wolfspeed's high performance, 0.15um GaN on SiC production process. The product family operates from 8.5-10.5 GHz and supports both defense and commercialrelated radar applications. The CMPA851A050 family supports up to 80 W of saturated output power with 29 dB of large signal gain and is offered in various package platforms. Pulsed and CW are both available operating conditions depending on the package selection. The CMPA851A050 family offers bare die, SMT and flange package solutions allowing the user to optimize their SWAP-C analsysis in meeting next generation requirements.

Products

Product SKU 🗘	Buy Online	Request Sample	Data Sheet	Recommended For New Design?	Technology 🗘	Frequency $^{^{\circ}}$	Frequency ^ Max ~	Pea Out Pow
CMPA851A050S-AMP1	=		Request Now	Yes	GaN on SiC	8.5 GHz	10.5 GHz	80 \
CMPA851A050S NEW	:	(Request Now	Yes	GaN on SiC	8.5 GHz	10.5 GHz	80 \
CMPA851A050D NEW			Request Now	Yes	GaN on SiC	8.5 GHz	10.5 GHz	80 \
CMPA851A050F-AMP	=		Request Now	Yes	GaN on SiC	8.5 GHz	10.5 GHz	50 \
CMPA851A050F NEW	\		Request Now	Yes	GaN on SiC	8.5 GHz	10.5 GHz	50\

Superior Overall Performance Pulsed and CW Operation

Features

- **Environmental Protection**
- **Benefits**

High SWAP-C Analysis

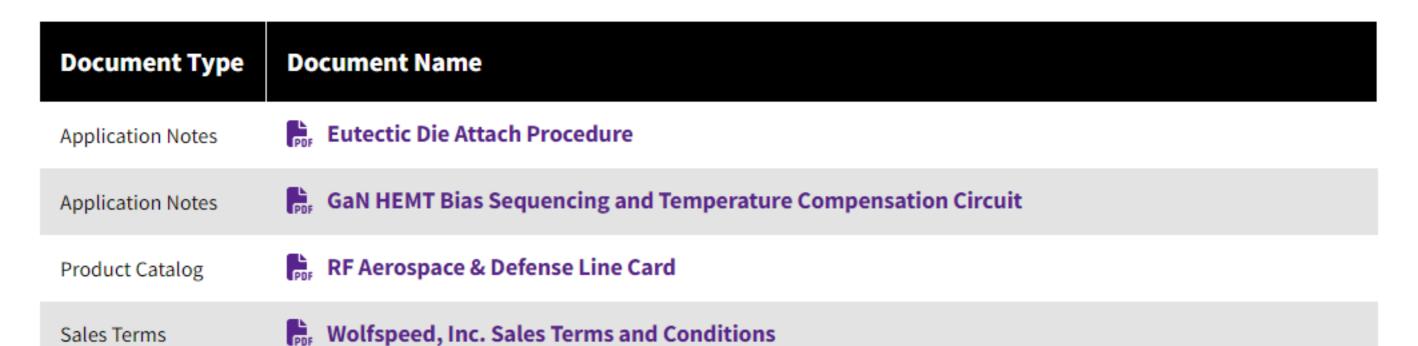
Superior Thermal Management

- Automated Assembly
- **Applications**

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Thermal Considerations for

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.

Wolfspeed.

RF | Radar / Avionics

achieving higher linearization, greater power density and improved thermal conductivity.

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demands on PA design

Wolfspeed RF GaN meets 5G

silicon parts in 5G cellular transmitter amplifiers,

Wolfspeed GaN on SiC products can replace inefficient

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