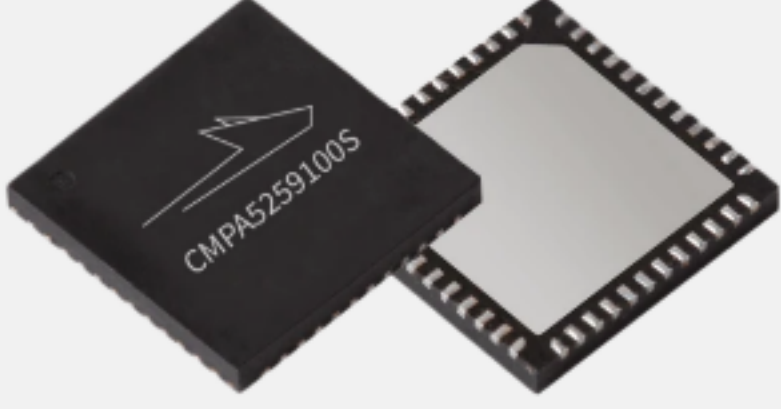


CMPA5259100



5.0 - 5.9 GHz, 100W GaN MMIC HPA

Wolfspeed’s CMPA5259100S is a 100W package MMIC HPA utilizing Wolfspeed’s high performance, 50V GaN on SiC production process. The CMPA5259100S operates from 5.0-5.9 GHz and supports both defense and commercial-related radar applications. The CMPA5259100S achieves 100W of saturated output power with 25 dB of large signal gain and very high power-added efficiency under pulsed operation.

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Product SKU	Buy Online	Request Sample	Data Sheet	Recommended For New Design?	Technology	Frequency Min	Frequency Max	Peak Output Power
CMPA5259100S-AMP1	<div>NEW</div>		<div>Request Now</div>	Yes	GaN on SiC	5 GHz	5.9 GHz	100 W
CMPA5259100S	<div>NEW</div>		<div>Request Now</div>	Yes	GaN on SiC	5 GHz	5.9 GHz	100 W

- ⚙️

Applications
- Pulsed Military and Commercial Radar

Technical & Sales Documents

Tools & Support

Document Type

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Document Type	Document Name
Application Notes	Eutectic Die Attach Procedure
Application Notes	GaN HEMT Bias Sequencing and Temperature Compensation Circuit
Design Files	CMPA5259100S-AMP1 All Design Files
S-parameters	CMPA5259100S S-parameters – VDS = 50 V – IDQ = 100 mA – 85 C
S-parameters	CMPA5259100S S-parameters – VDS = 40V – IDQ = 100 mA – 25 C
S-parameters	CMPA5259100S S-parameters – VDS = 45V – IDQ = 100 mA – 25 C
S-parameters	CMPA5259100S S-parameters – VDS = 50V – IDQ = 100 mA – 25 C
S-parameters	CMPA5259100S S-parameters – VDS = 50V – IDQ = 100 mA – -40 C
S-parameters	CMPA5259100S S-parameters – VDS = 50V – IDQ = 200 mA – 25 C
S-parameters	CMPA5259100S S-parameters – VDS = 50V – IDQ = 50 mA – 25 C
Product Catalog	RF Aerospace & Defense Line Card
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