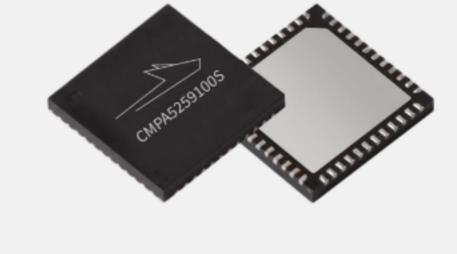


## CMPA5259100

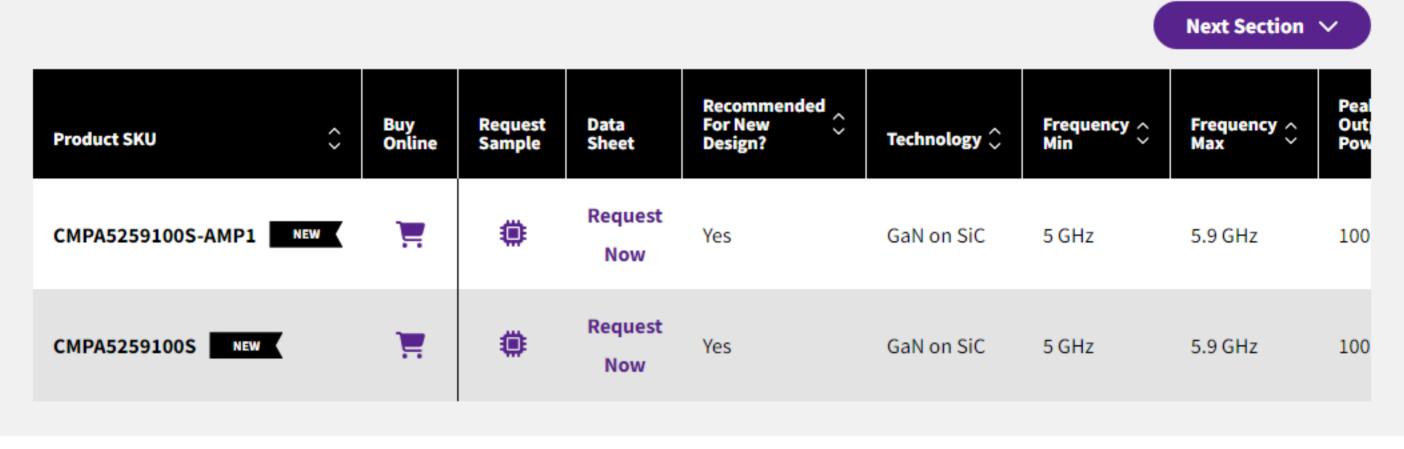
RF > Aerospace & Defense > CMPA5259100

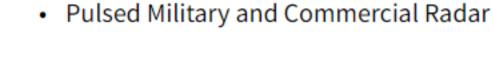


# 5.0 - 5.9 GHz, 100W GaN MMIC HPA

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.

# Products





S-parameters

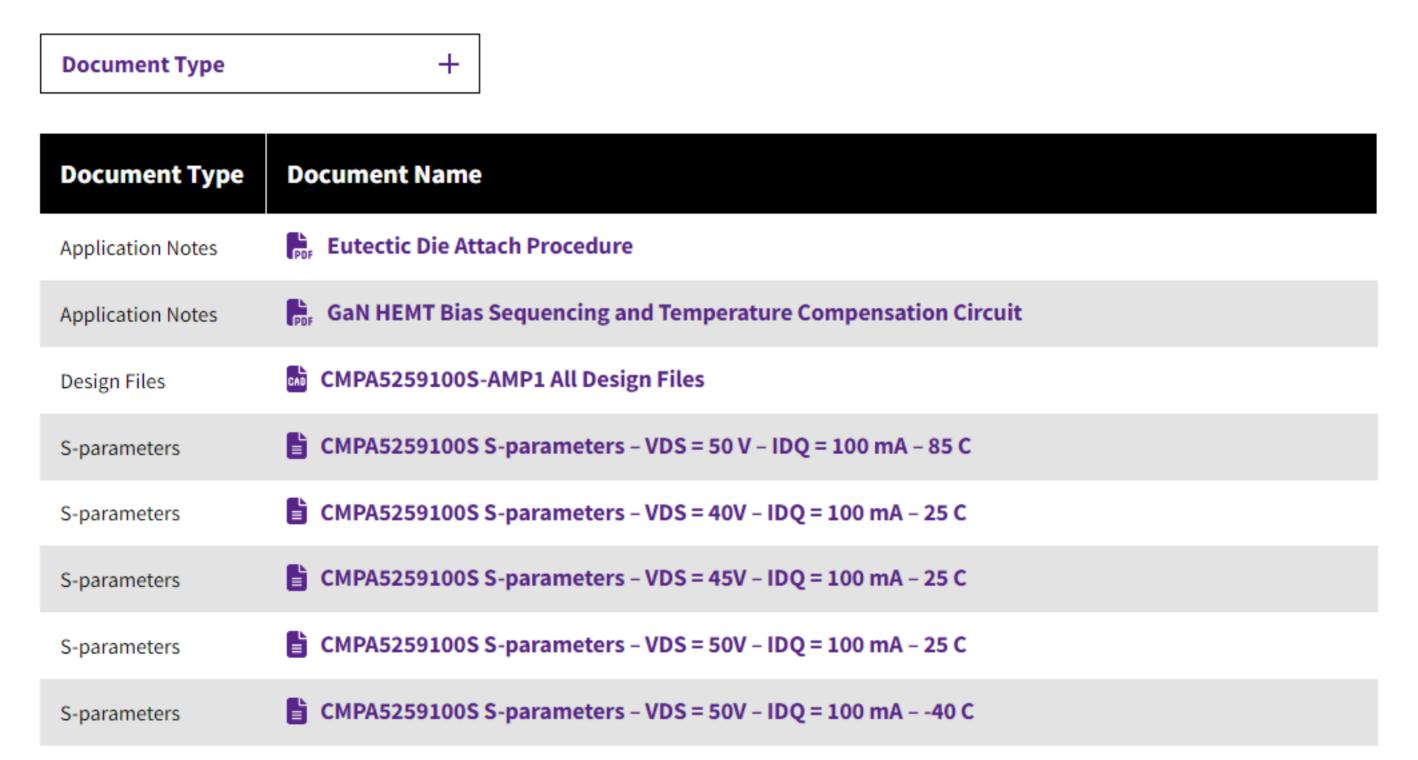
S-parameters

Sales Terms

**Product Catalog** 

**Applications** 

**Technical & Sales Documents** 



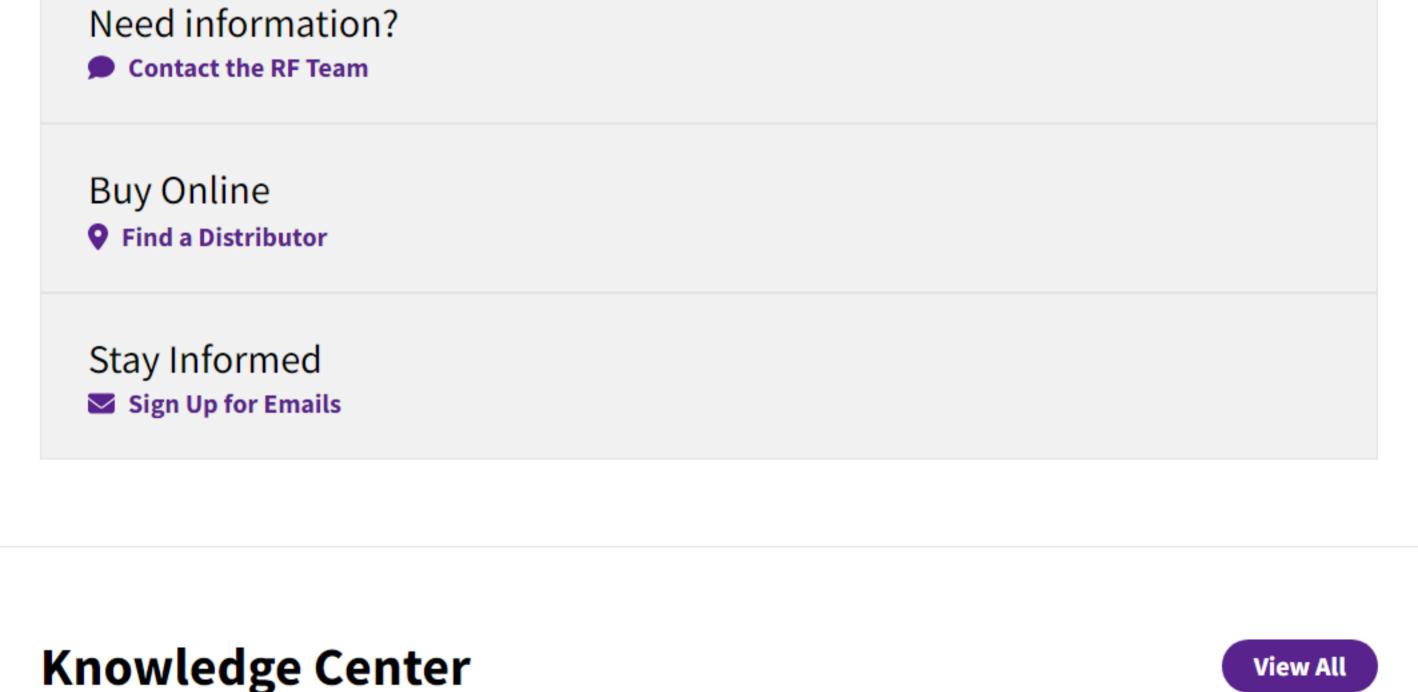
CMPA5259100S S-parameters – VDS = 50V – IDQ = 200 mA – 25 C

MPA5259100S S-parameters – VDS = 50V – IDQ = 50 mA – 25 C

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demands on PA design

Wolfspeed RF GaN meets 5G

silicon parts in 5G cellular transmitter amplifiers,

**RF** | Communications Infrastructure

**High-Power GaN RF Amplifiers** 

### 

Wolfspeed GaN on SiC products can replace inefficient

achieving higher linearization, greater power density

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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