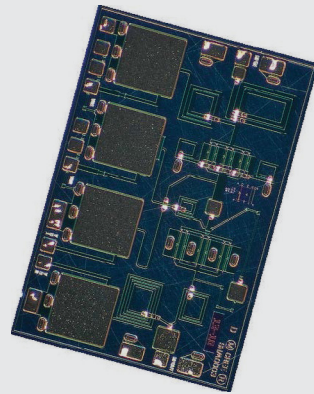
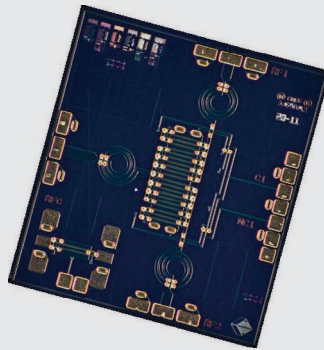
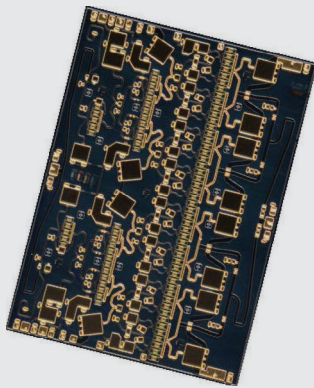




# FOUNDRY SERVICE FOR CUSTOM DEVICES

Wolfspeed is the leader in GaN on SiC MMIC Technology. We have the design assistance, proven process, testing, and support to realize your specifications from initial development to recurring production. Wolfspeed can do it with faster cycle times, higher first pass design success, and greater reliability than our competitors.

We offer non-linear, scalable GaN HEMT models and full PDKs for both AWR Microwave Office (MWO) and Keysight's Advanced Design System (ADS).



## FEATURES

Dual 3µm-thick interconnect metal layers

Thin Film & Bulk Resistors

MIM Capacitors >100 V

Slot Substrate Vias

Power FETs & Switch FETs



## BENEFITS

Global leader in GaN on SiC MMIC Technology

World's largest dedicated wide bandgap GaN facility

Highest reliability in the industry

Assistance, testing and support from initial development to volume production

Extremely accurate design kits, scalable non-linear models



## APPLICATIONS

2-way Private Radio

CATV

Test Instrumentation

EW Jammers

Radar

Satellite Communications

Military Communications

Class A, AB, linear amplifiers suitable with OFDM, QPSK, QAM, FM waveforms

ASK ABOUT THE **GaN RF FOUNDRY ONLINE TRAINING COURSE.**

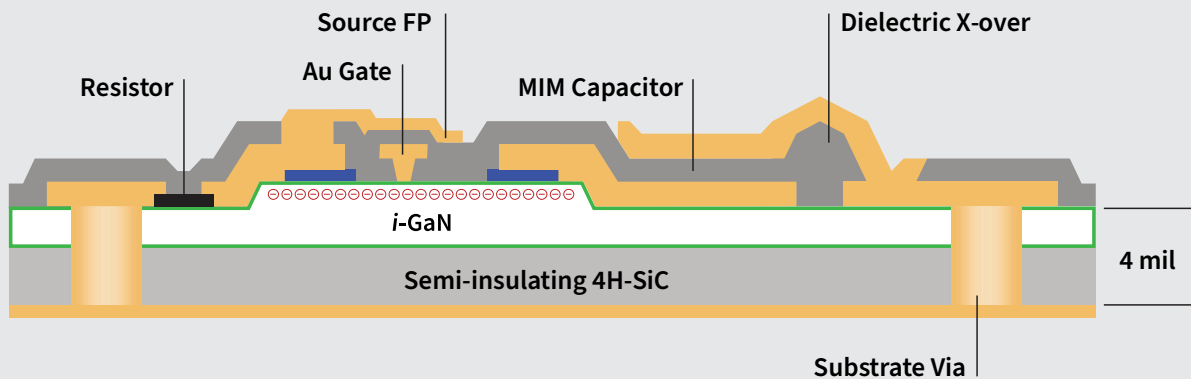
**wolfspeed.com**

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# FOUNDRY SERVICE FOR CUSTOM DEVICES

## PROCESSES

	G28V5 MMIC	G28V3 MMIC	G50V3 MMIC	G28V4 MMIC	G40V4 MMIC	G50V4 MMIC
<b>Gate Length</b>	0.15 $\mu\text{m}$	0.4 $\mu\text{m}$	0.4 $\mu\text{m}$	0.25 $\mu\text{m}$	0.25 $\mu\text{m}$	0.25 $\mu\text{m}$
<b>Bias</b>	28 V	28 V	50 V	28 V	40 V	50 V
<b>Breakdown</b>	>84 V	>84 V	>150 V	>84 V	>120 V	> 150 V
<b>Density</b>	3.75 W/mm	4.5 W/mm	8 W/mm	6 W/mm	6 W/mm	8.5 W/mm
<b>Performance</b>	DC - 40 GHz	DC - 8 GHz	DC - 6 GHz	DC - 18 GHz	DC - 18 GHz	DC - 18 GHz



## SERVICE FEATURES

Layout support and DRC  
 Development lots in dedicated & shared mask options  
 Electrical test services available  
 Visual screening

## CIRCUIT TYPES

High power FET amplifiers  
 Broadband amplifiers  
 High efficiency amplifiers  
 High IP3 amplifiers  
 Multi-function integrated MMICs  
 FET limiters  
 High power FET switches  
 High IP3 FET mixers  
 Attenuators  
 Phase Shifters  
 Low noise amplifiers

READY TO GET STARTED? VISIT [WOLFSPEED.COM/RF/FOUNDRY-SERVICES](https://www.wolfspeed.com/rf/foundry-services) OR CONTACT US AT [FOUNDRY@WOLFSPEED.COM](mailto:foundry@wolfspeed.com)

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