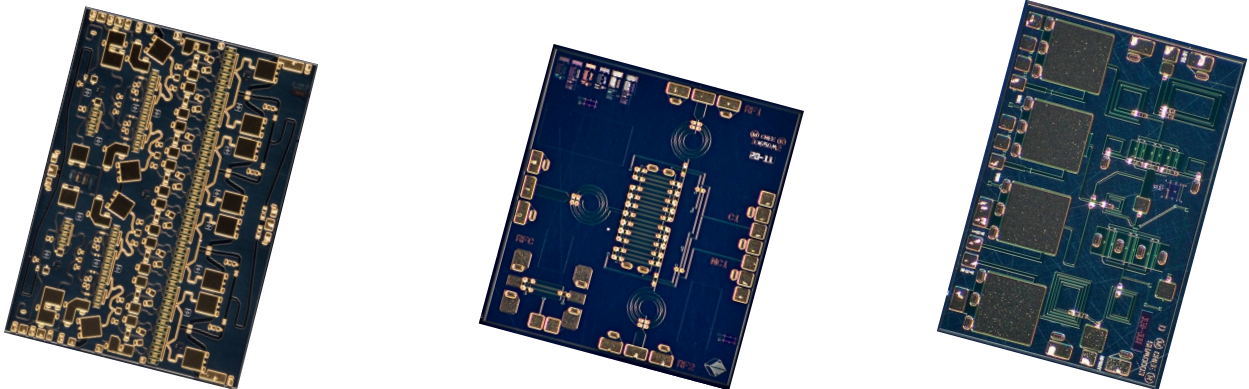


Foundry Services

Get Higher First-Pass Design Success with Wolfspeed Foundry Services

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 for MMICs, as well as full PDKs for both National Instrument's Microwave Office (MWO) and Keysight's Advanced Design System (ADS).



BENEFITS

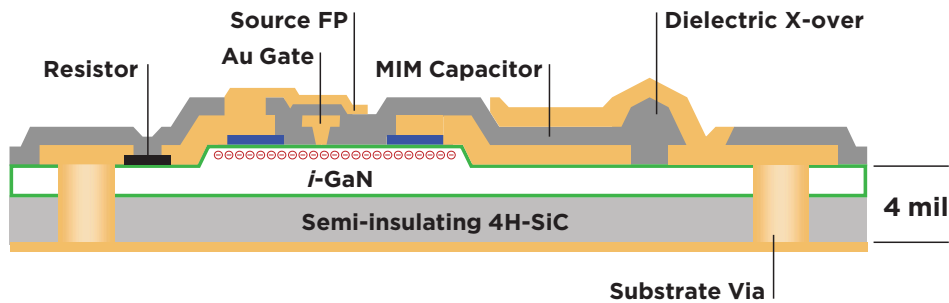
- Global leader in GaN-on-SiC MMIC Technology
- World's largest dedicated wide bandgap GaN facility
- Highest reliability in the industry
- Assistance, testing and support from initial development to volume production
- Extremely accurate design kits, scalable non-linear models

FEATURES

- Dual-metal, 3 μm -thick interconnects
- Thin Film & Bulk Resistors
- MIM Capacitors >100 V
- Slot Substrate Via's
- Power FETs & Switch FETs

PROCESSES

	G28V3 MMIC	G28V4 MMIC	G40V4 MMIC	G50V3 MMIC
Gate Length	0.4 μm	0.25 μm	0.25 μm	0.4 μm
Bias	28 V	28 V	40 V	50 V
Breakdown	>120 V	>120 V	>120 V	> 150 V
Density	4.5 W/mm	6 W/mm	6 W/mm	8 W/mm
Performance	DC - 8 GHz	DC - 18 GHz	DC - 18 GHz	DC - 6 GHz



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

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 amplifier