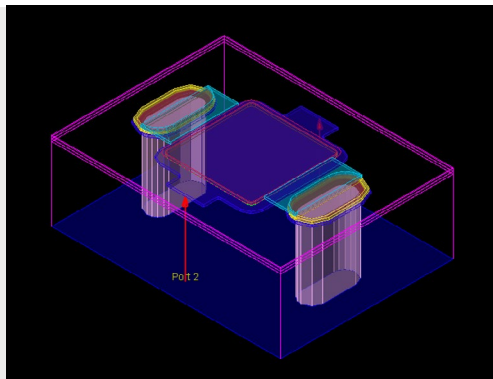




A CREE COMPANY

## Wolfspeed GaN RF Online Foundry Training Course



### PROGRAM OVERVIEW

In this complete set of modules, you will learn the fundamental techniques for design of GaN RF devices at your own pace. You will learn best practices for circuit design and how the devices are modeled. This will include the tools and techniques associated with designing HEMTs and MMICs into our Foundry.

### BENEFITS

Improve design cycle time and product quality by leveraging decades of Wolfspeed foundry services experience.

### WHO SHOULD ATTEND

Engineers/Designers that have basic knowledge of MMIC design and experience using Microwave Office (MWO) or Advanced Design System (ADS)

### DURATION

About 2 Hours

### PRICE

Free

\*NDA or PDK required to enroll

## Request Access Today

[WOLFSPEED.COM/FOUNDRY-TRAINING-COURSE](https://www.wolfspeed.com/foundry-training-course)

## SECTION 1 | INTRODUCTION

- Wolfspeed's GaN Semiconductor Operation
  - Foundry Process Flow
  - Fab Process Flow
  - Process Qualification and Reliability
- 

## SECTION 2 | PROCESS TECHNOLOGIES

- V3 – 0.4  $\mu\text{m}$  (G28V3, G50V3)
  - V4 – 0.25  $\mu\text{m}$  (G28V4, G40V4)
  - V5 – 0.15  $\mu\text{m}$  (G28V5)
- 

## SECTION 3 | FOUNDRY PROCESS (DESIGN ORIENTATION)

- Overview of the Foundry Manual
  - Process Cross Section
  - Thermal Properties
- 

## SECTION 4 | PROCESS DESIGN KIT OVERVIEW AND USAGE

- Design Kit Installation
  - Element Definitions and Usage
  - EM Simulation Configuration
  - GDS Export (Definitions and Setup)
  - Electrothermal (ADS Only)
  - Layout Rules and Verification
- 

## SECTION 5 | DESIGN GUIDELINES AND LIMITS

- LNA & Switches
  - Process Reliability Limits
  - Guidelines for Manufacturability
  - Lessons Learned/Common Mistakes to Avoid
- 

## SECTION 6 | MODELING

- Basic Understanding of Model Types
- Model Fidelity for Each Process

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