RF Basics Seminar



September 30, 2022 | 8:30 AM - 12:00 PM

Residence Inn by Marriott San Diego Carlsbad 2000 Faraday Ave, Carlsbad, CA 92008

Who should attend: Persons with an understanding of electronics theory and an interest in RF basics

Agenda

8:30 AM - 8:40 AM

Registration/Sign In

8:40 AM - 12:00 PM

Program

- Lumped Elements vs Frequency
 - Shunt, Series, Parallel RLC networks
- Impedance
- Time Domain vs Frequency Domain
- Transmission Line Modeling
 - Time & Frequency Domain Behavior
 - **Z**o
- Lumped Element vs Electromagnetic Modeling of Transmission

Lines— Wavelength concepts & signal behaviors

- Assumptions for < 1/4 wavelength
- Accounting for > 1/4 wavelength
- Reflection Coefficient Concepts and Applications
- Basic
 - Lossless = simpler math, reduced accuracy
 - Lossy = computation intense, higher accuracy

12:00 PM - 1:00 PM

Lunch Provided (Please Register at Link Below)

FormFactor, Inc. in partnership with:

Ward Davis Associates Redondo Beach, CA 310 643-6977 **REGISTER NOW**

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RF Wafer Probing Seminar



September 30, 2022 | 12:00 PM - 4:30 PM

Residence Inn by Marriott San Diego Carlsbad 2000 Faraday Ave, Carlsbad, CA 92008

Who should attend: Persons with an understanding of RF and an interest in RF wafer probing and calibration

Agenda

12:00 PM - 1:00 PM

1:00 PM - 1:10 PM 1:10 PM - 4:30 PM **Lunch Provided** (Please Register at Link Below)

Registration/Sign In

Program

- Introduction to On-wafer Probing
 - What is an RF Probe
 - How to Choose the Right Probe
- On-Wafer Calibration
 - S-Parameter Basics
 - Overview of Calibration Methods, How to Calibrate
 - Introduction to WinCal
- On-Wafer Measurement Verification
 - How Good is My Calibration?
- Additional Considerations
 - Design for Testability
 - De-embedding
 - Temperature Testing with RF Probes
 - Probe Cleaning

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