RF Basics Seminar

FormFactor™

September 28, 2022 | 8:30 AM - 12:00 PM

Hampton Inn & Suites Irvine - Orange County Airport - Shore Ballroom
2192 Dupont Dr. Irvine, CA 92612

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
  — Zo

- **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

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www.formfactor.com/events/rfseminars

RF Wafer Probing Seminar

FormFactor™

September 28, 2022 | 12:00 PM - 4:30 PM

Hampton Inn & Suites Irvine - Orange County Airport - Shore Ballroom
2192 Dupont Dr. Irvine, CA 92612

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