

RF Basics Seminar



September 26, 2022 | 8:30 AM - 12:00 PM

**Residence Inn by Marriott Los Angeles, Redondo Beach - Nautilus Room
2420 Marine Ave, Redondo Beach, CA 90278**

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_0
- **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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RF Wafer Probing Seminar



September 26, 2022 | 12:00 PM - 4:30 PM

**Residence Inn by Marriott Los Angeles, Redondo Beach - Nautilus Room
2420 Marine Ave, Redondo Beach, CA 90278**

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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