RF Basics Seminar

FormFactor™

September 15, 2022 | 8:30 AM - 12:00 PM

Hale Street Building
121 Hale Street Lowell, MA 01851
(Engineering Conference Room)

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:

ProTEQ Solutions
Nashua, NH 03062
(888) 490-6624

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RF Wafer Probing Seminar

FormFactor™

September 15, 2022 | 12:00 PM - 4:30 PM

Hale Street Building
121 Hale Street Lowell, MA 01851
(Engineering Conference Room)

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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