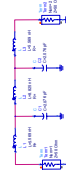
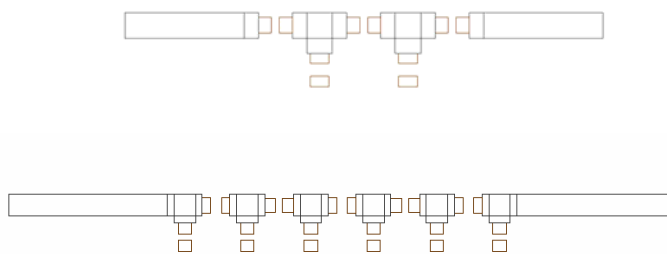


# BENCHMARK FILTER KIT



## Filter Kit Models

- 2.2 GHz Low-pass (LPF)
- 900 MHz High-pass (HPF)
- 5.4 GHz Band-pass (BPF)



- Three fully-assembled filters (LPF, HPF and BPF) with SMA connectors
- Modelithics measurement data sets for assembled filters
- Complete design simulation schematics

## Benchmark Filter Simulation and Design Kit

**\* Extended kit option adds patterned boards and component kits to enable optimization of designs to your requirements**

## Product Description

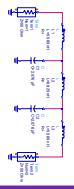
The Modelithics™ Benchmark Filter Simulation and Design Kit includes everything you need to simulate, design, construct, and compare three common filter configurations. All models and layouts are included to support your EDA software. Using Modelithics Global Models™ to represent each component, you'll see how accurate simulations enable first-pass design success. Validate the results by measuring the included pre-built samples. Then, using the bare boards included, simply modify your design goals to build similar filters for your application.

## Technical Details

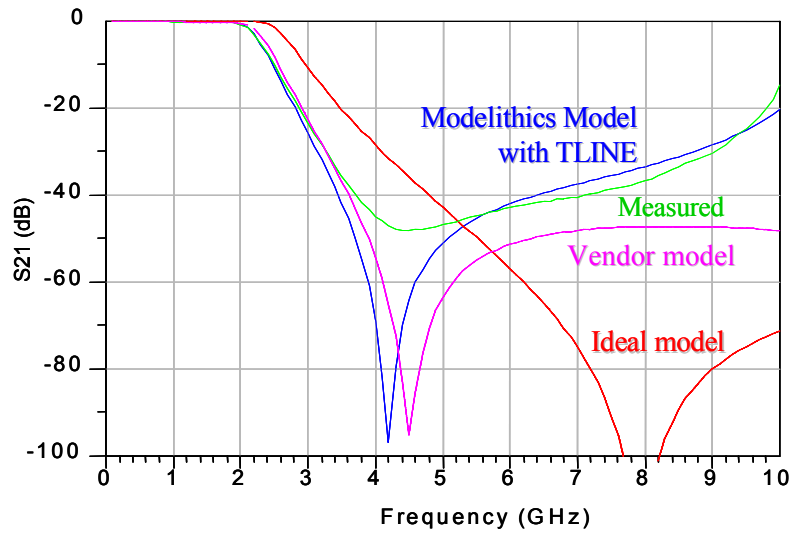
- Low-pass, High-pass, and Band-pass filter examples on Rogers 16-mil 4003 substrate material
- Detailed schematics with full parasitic modeling and transmission-line effects included
- Designs optimized for first-pass success using part-value and substrate-scalable Global Models for all required 0402 L and C components
- Complete layout and design simulation files provided for your EDA software
- Pre-assembled filters with SMA connectors for easy validation measurements
- Extended kit option adds patterned boards allowing you to optimize, design, build, and test your own filters using part-value scaling features of Global Models
- Available with sample component kits from leading vendors ATC and Coilcraft

## Test Fixtures



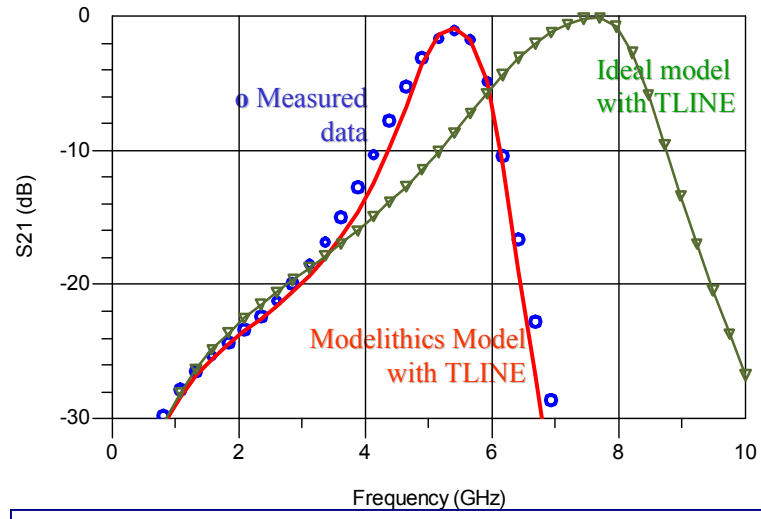


### 2.2 GHz LOW-PASS FILTER S21



Modelithics substrate-scalable Global Models produce the most accurate simulations available, vastly outperforming ideal models or simulations based on typical vendor-supplied S-parameter files.

### 5.4 GHz BAND-PASS FILTER S21



BPF simulation with Modelithics models shows close agreement with measured data, while ideal models yield unacceptable results even when microstrip transmission line effects are included.

To order, call 888-359-6359 (813-866-6335 outside US) or E-mail [sales@modelithics.com](mailto:sales@modelithics.com)



Notice: Modelithics models represent as-measured characteristics of sample devices using specific testing and fixture configurations. The accuracy of models may vary as a result of differing device characteristics, test fixtures, or test conditions. No liability shall be assumed by Modelithics for use of its models, or for any infringement of rights of third parties that may result from their use. Modelithics reserves the right to revise its models and its product line without prior notice.