

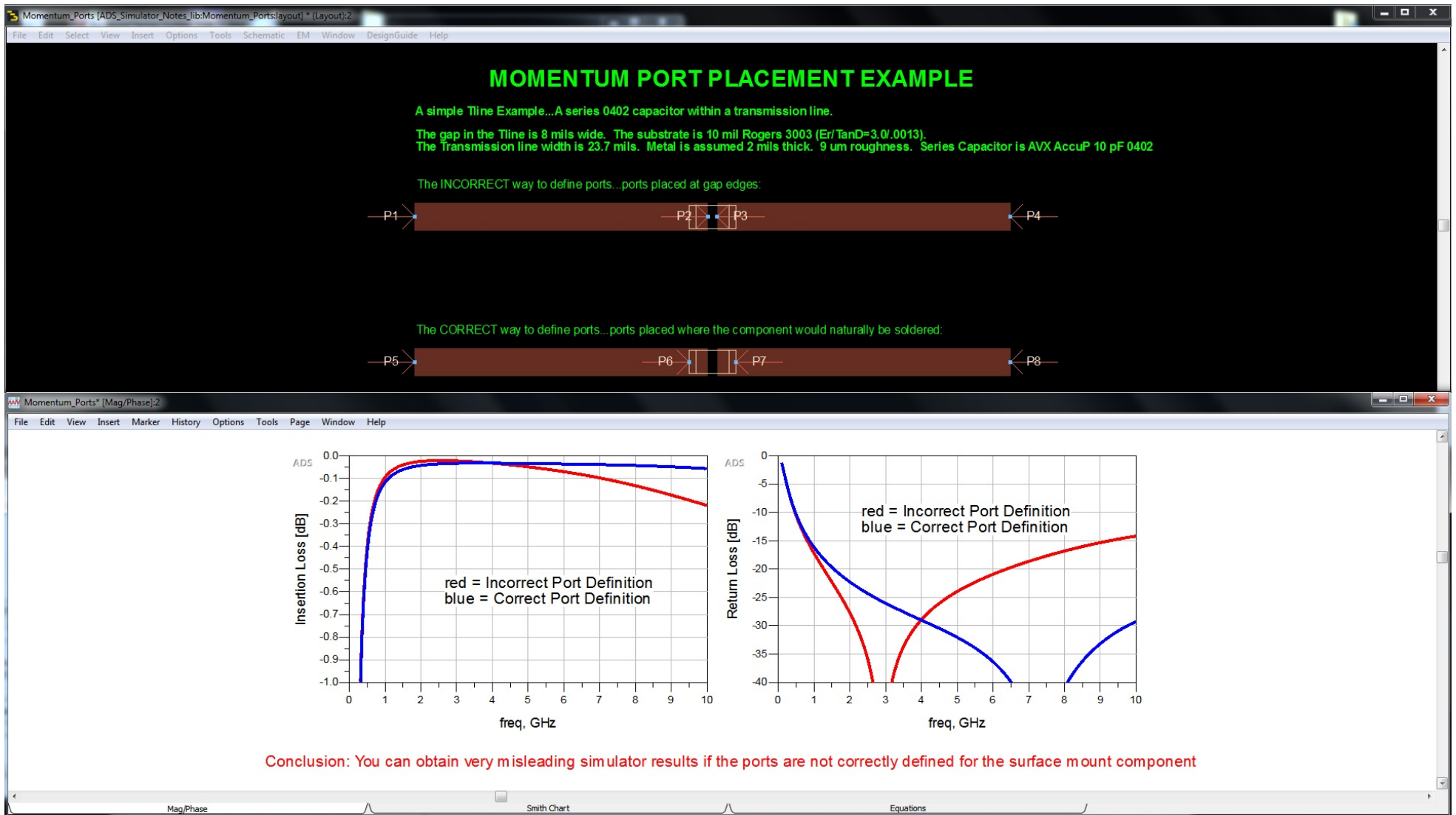


An Example Using The Advanced Design System (ADS) Momentum Electromagnetic Simulator.

Port Placement In The Momentum Simulator Is Not Always Obvious And, If Done Incorrectly, Can Yield Poor Simulation Results.

The Example Below Shows The Correct And Incorrect Way To Place Ports For a Series Capacitor Within A 50 Ohm Transmission Line.

The Ports Should Be Placed At The Points Where You Would Naturally Solder The Series Component To The 50 Ohm Traces. Very Different Results For Return Loss Occur, As Shown By The Red Plot At Bottom Right, If The Ports Are Instead Placed At The Gaps In the Transmission Line.



Other Advanced Design Examples Can Be Found At <https://bbt-line.com/ads-examples/>