



Quad-Ridge Horn Utilizing Resistive Films to Reduce Sidelobes

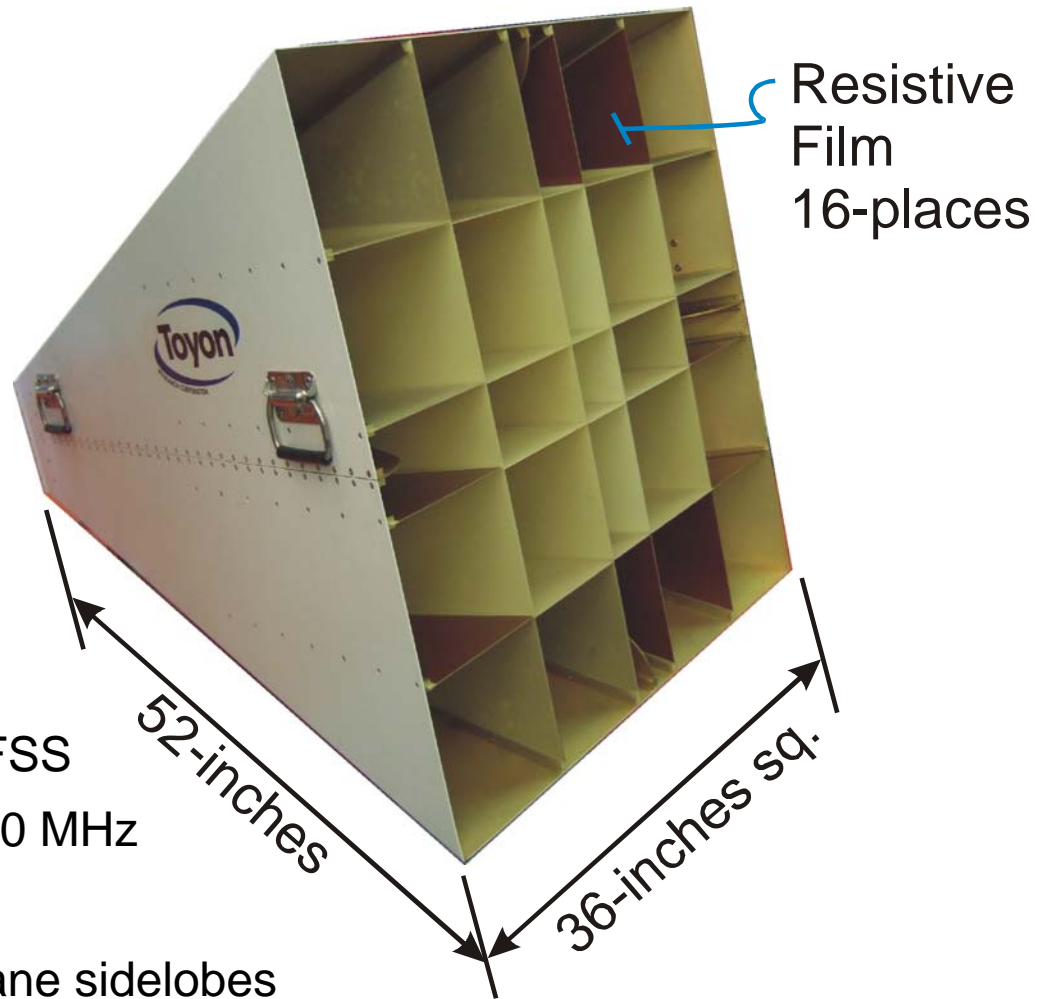
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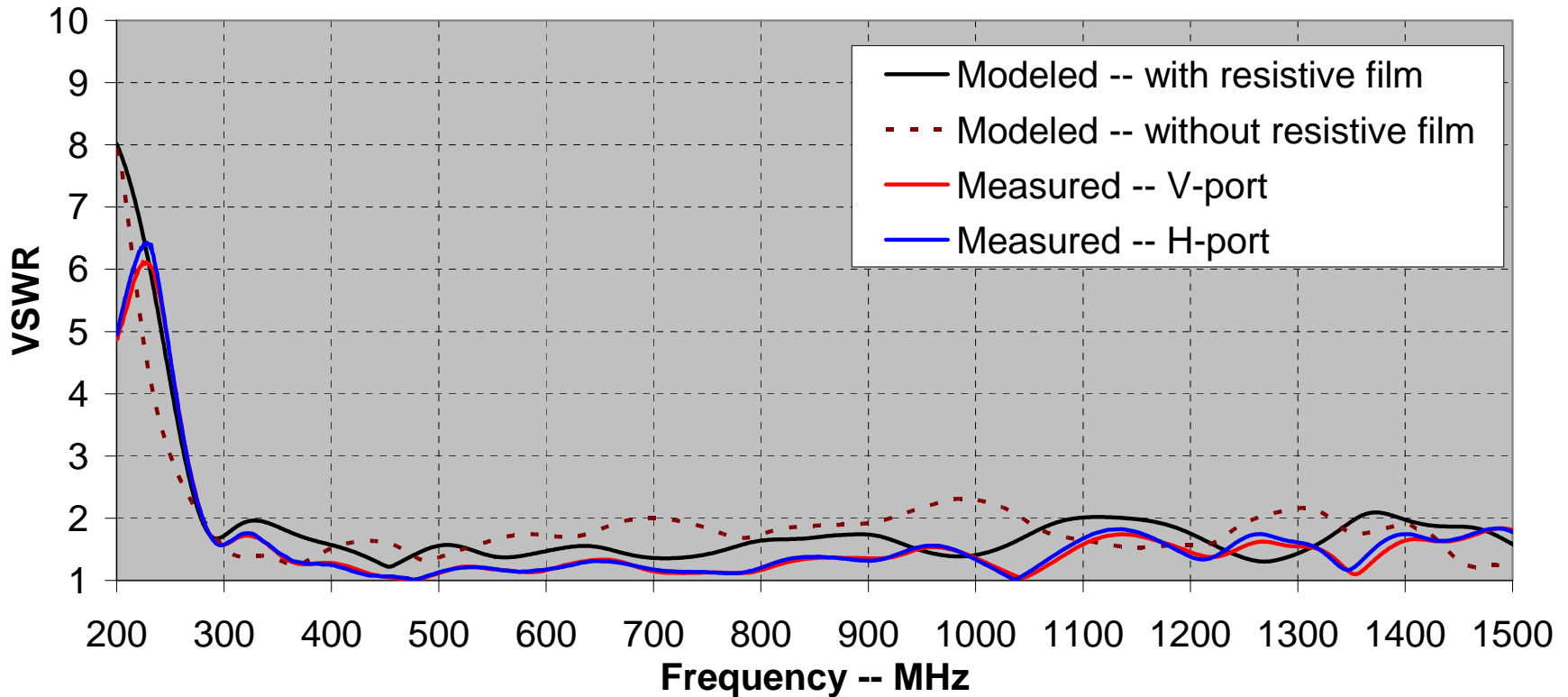
Quad-Ridge Horn was Designed with Resistive Film to Reduce the Sidelobes

Rear View



- Designed using Ansoft's HFSS
- Frequency Range: 300-1500 MHz
- Dual Linear polarization
- Resistive film reduces E-plane sidelobes

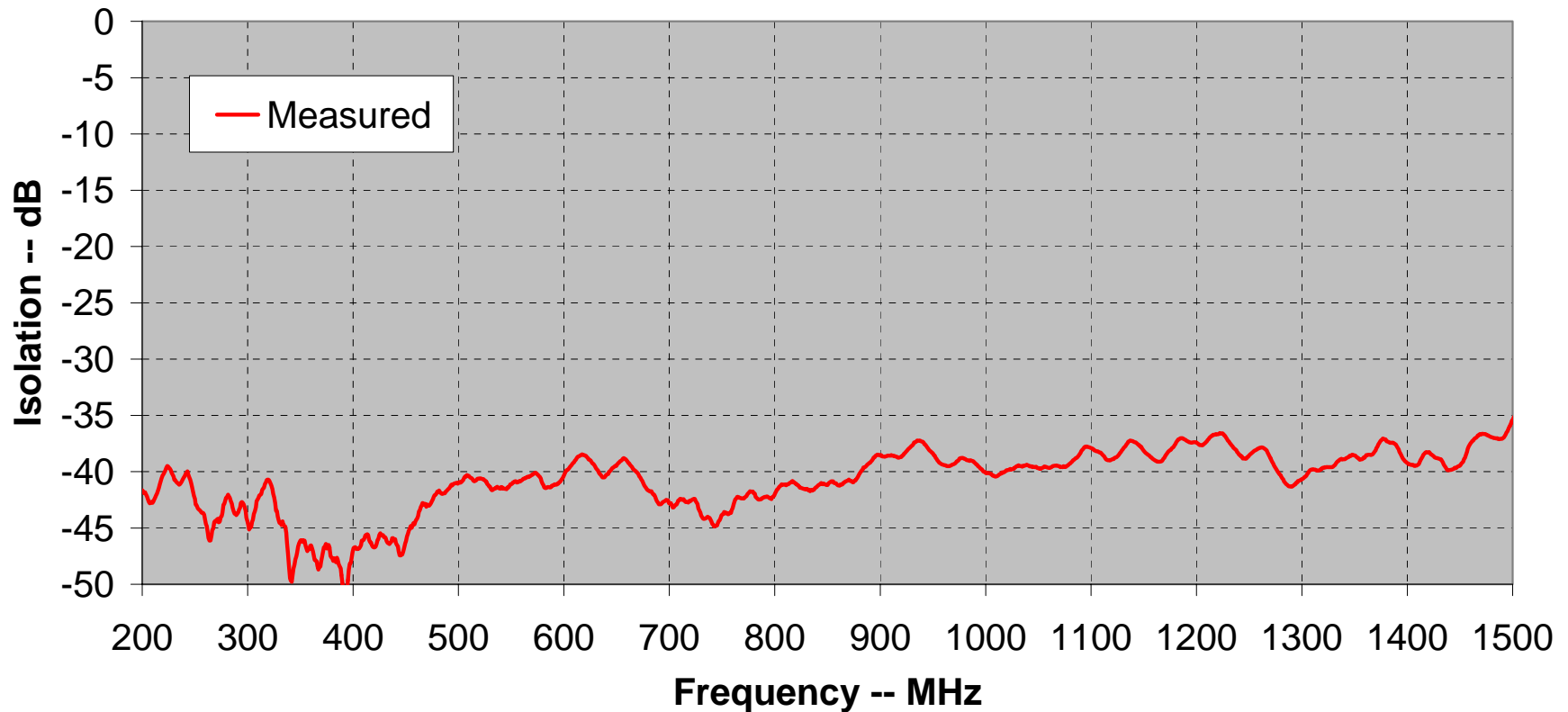
Resistive Film Has Little Effect on VSWR





Measured Isolation Between V & H Ports

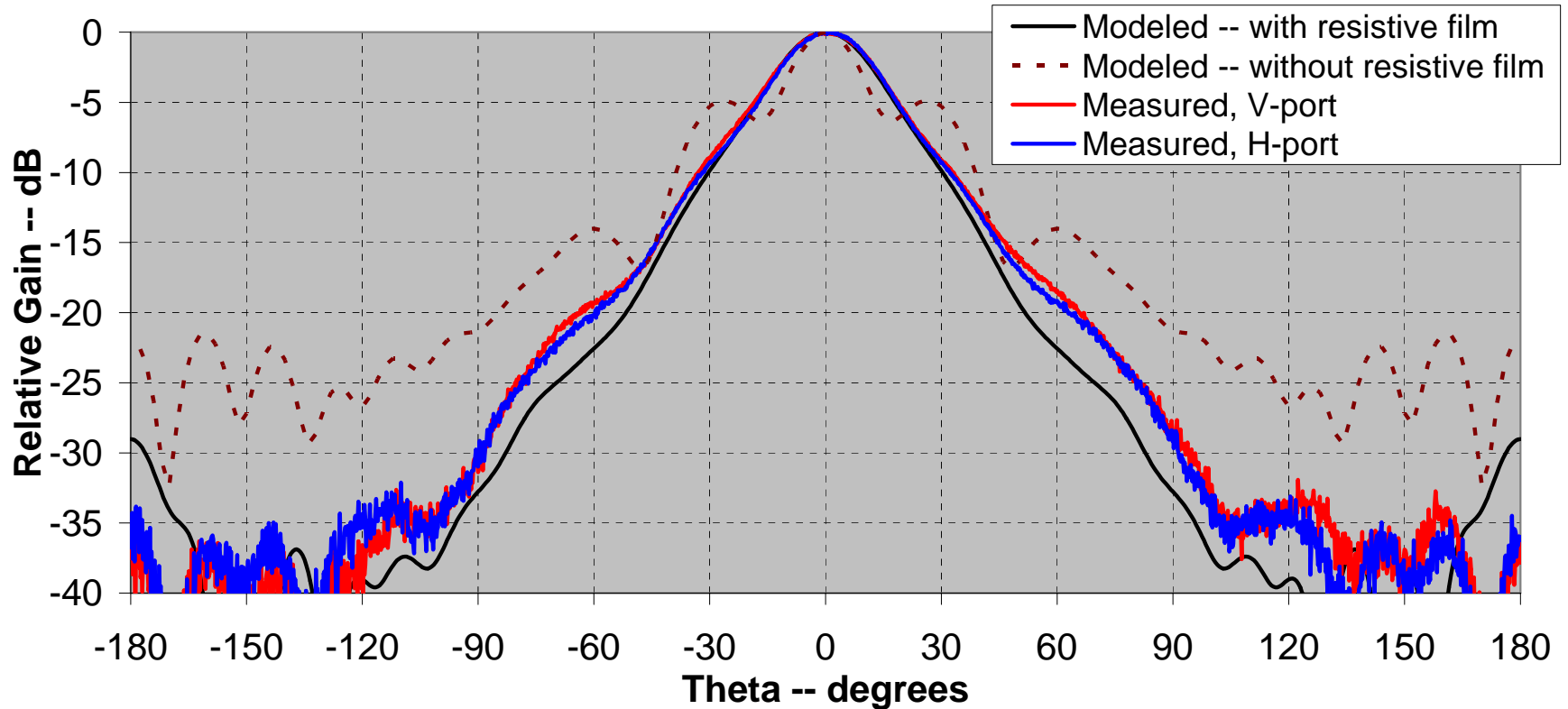
Isolation is Limited Only by Fabrication Tolerances





Measured vs Modeled Patterns E-plane, 900 MHz

Resistive Film Reduces the E-plane Sidelobes



Measured vs Modeled Patterns H-plane, 900 MHz

Resistive Film has Minor Effect in H-plane

