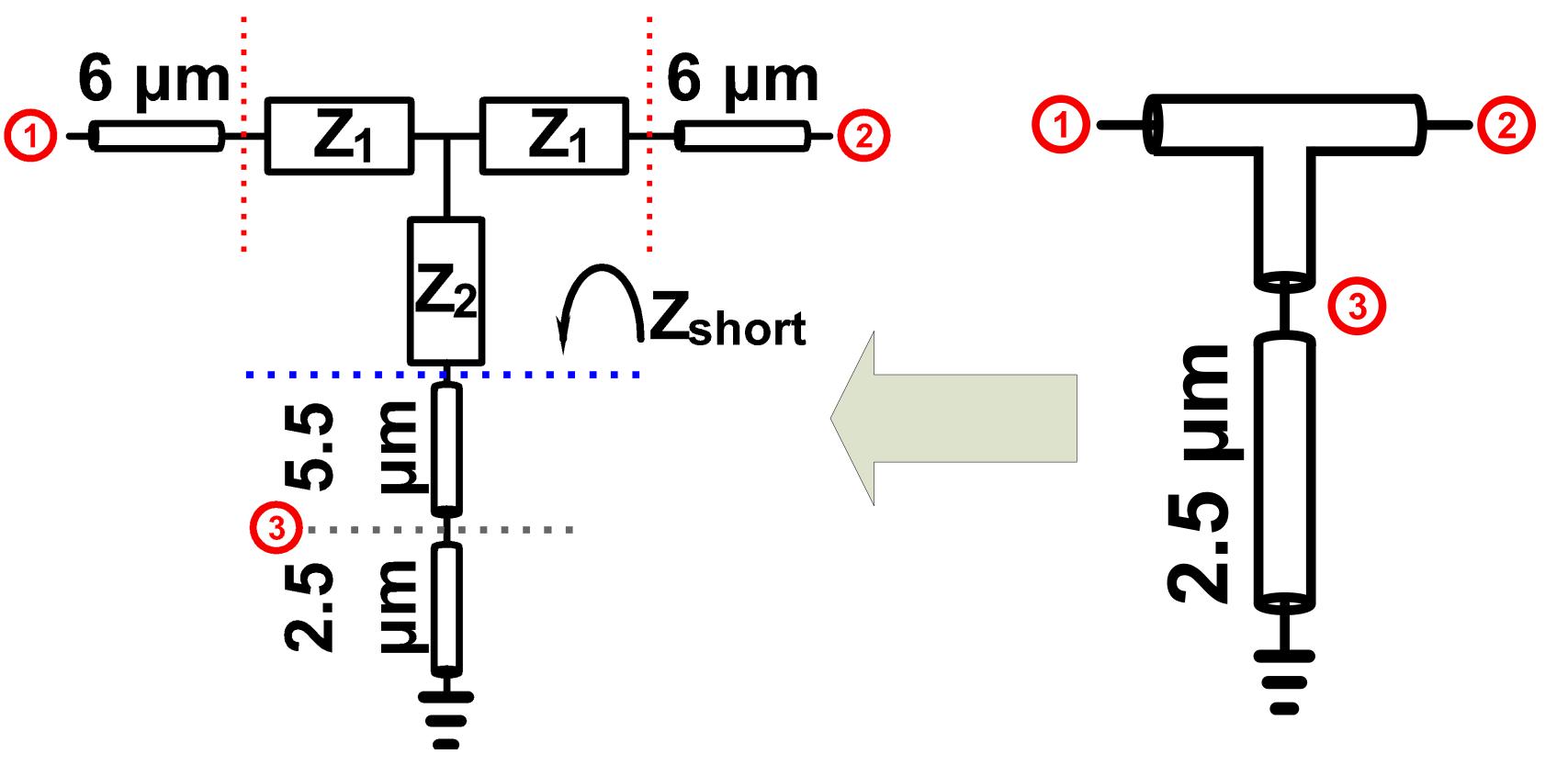


## 4. Characterization method

Tee-Junction Model

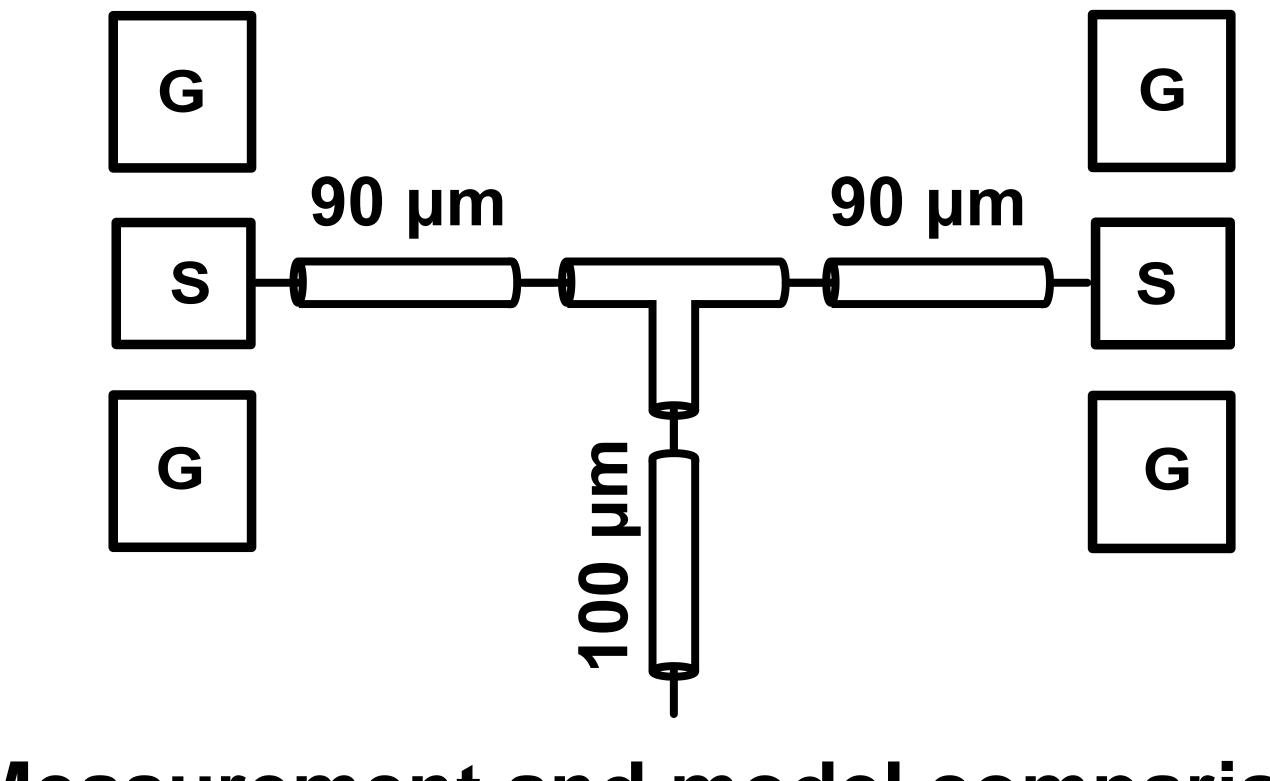


 From the measurement results of the following structure;

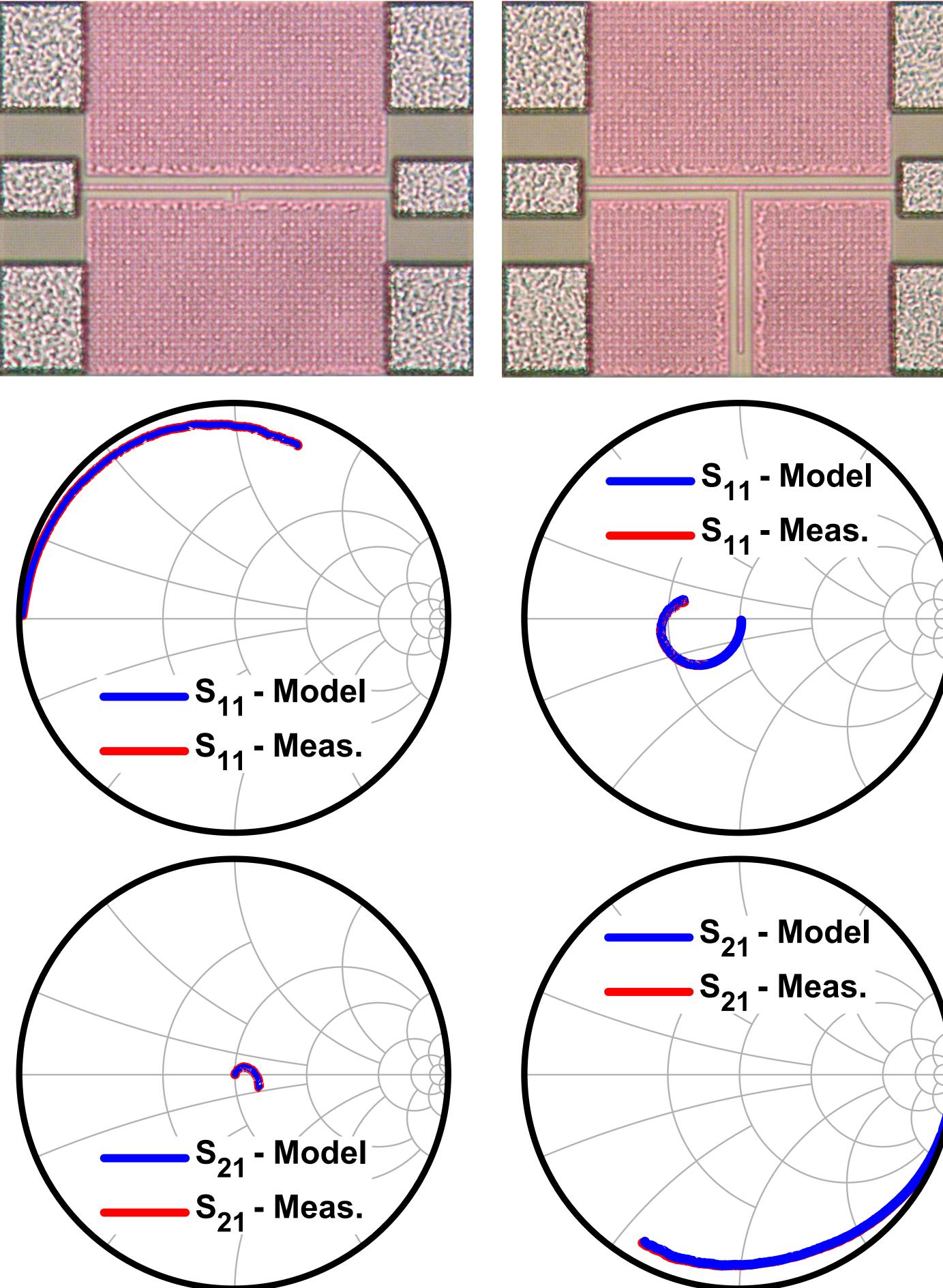
 Remaining **De-Embed: Pads&96 µm TL Response: Both sides** 

## 5. Measurement results

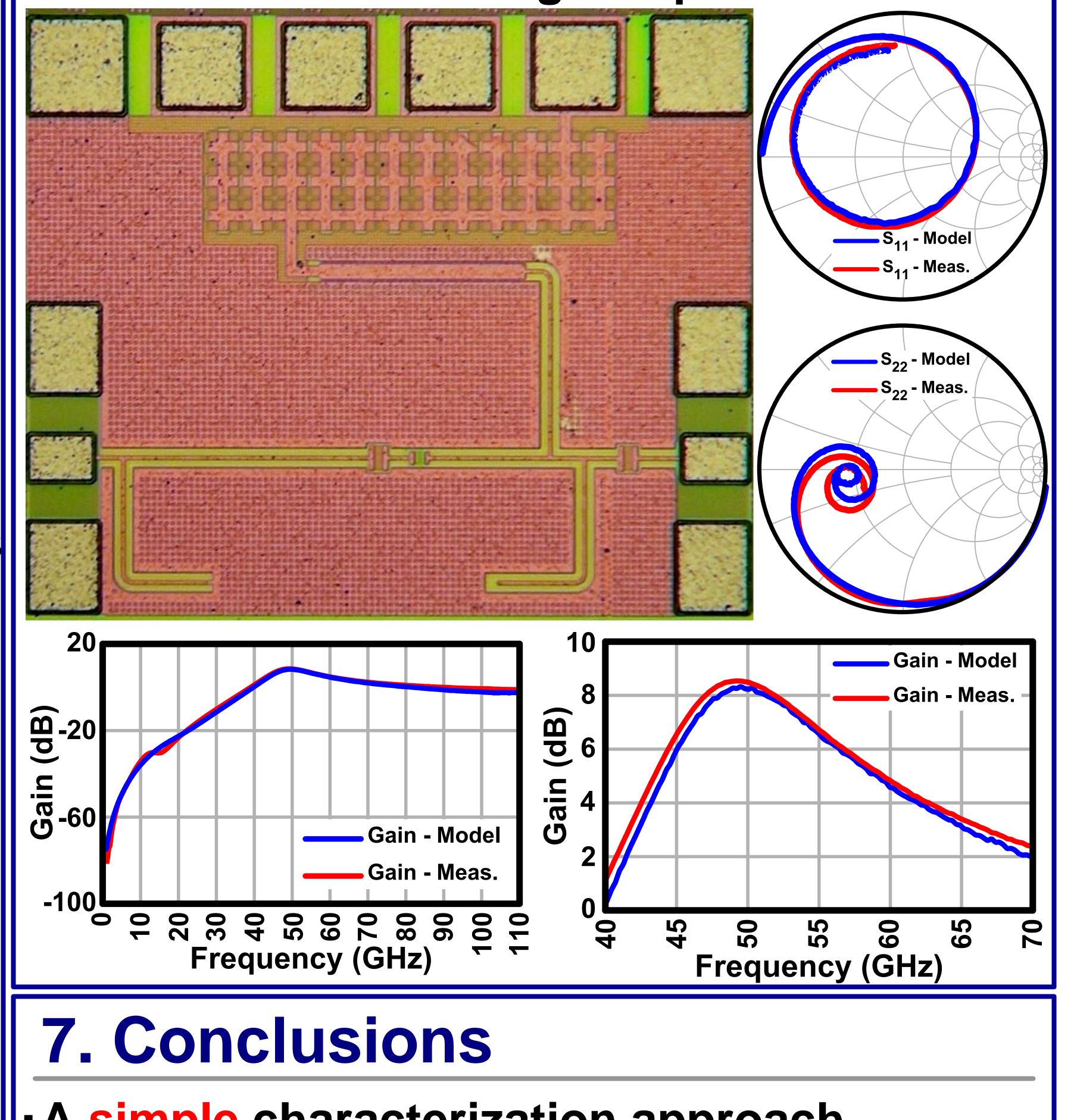
Verification structure with shunt open . Manufactured one-stage amplifier: circuited transmission line.

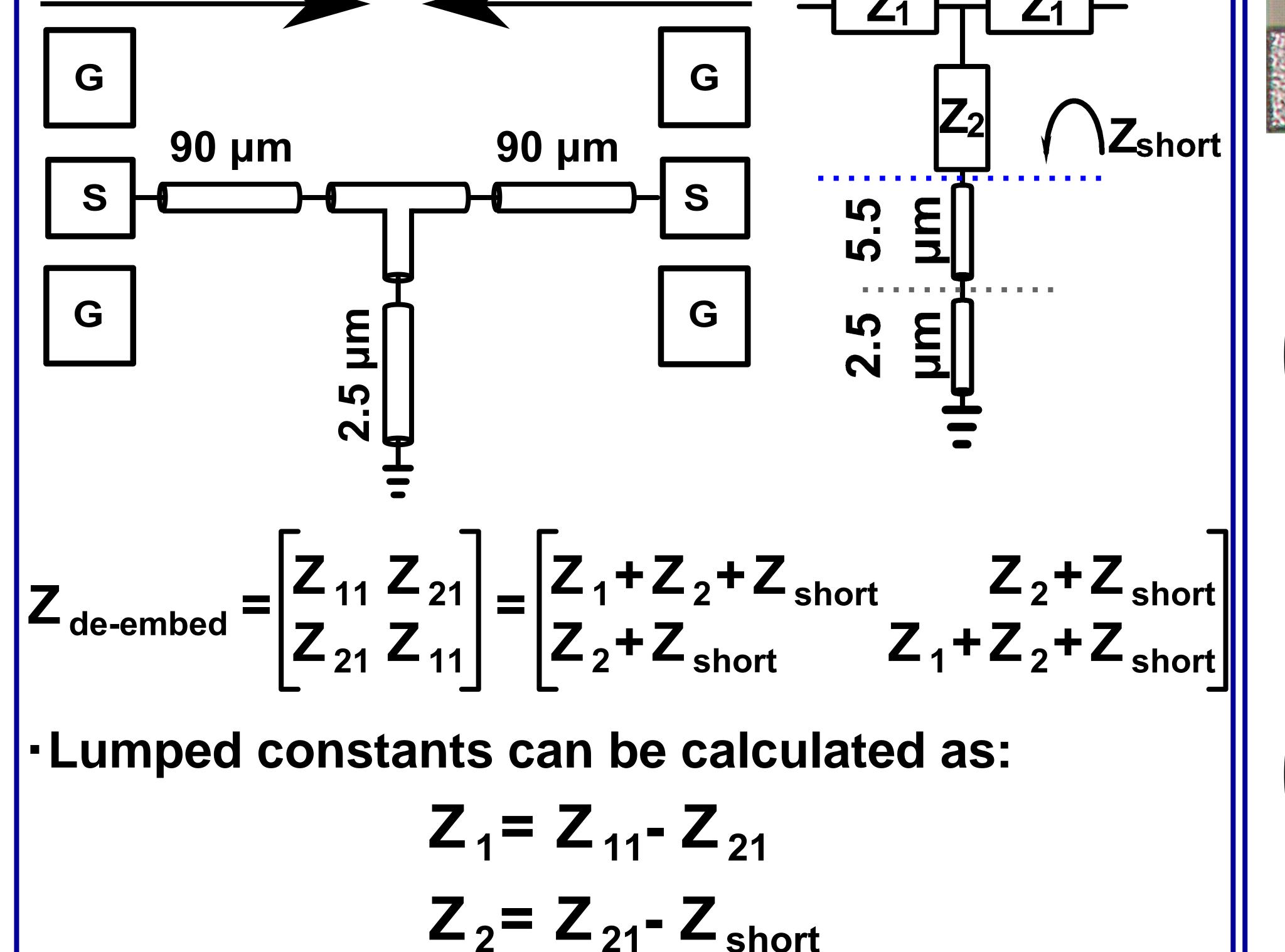


Measurement and model comparisons



## 6. Application on one-stage amp.





• A simple characterization approach • Two-port measurements are used Model based on lumped constants and transmission lines

 Z-parameters are used for lumped constant Model and measurement results agree well up to 110 GHz

Application on one-stage amplifier

 Amplifier measurement and model agree well up to around 80 GHz