

ADL5565

Differential Amplifier

S-Parameters

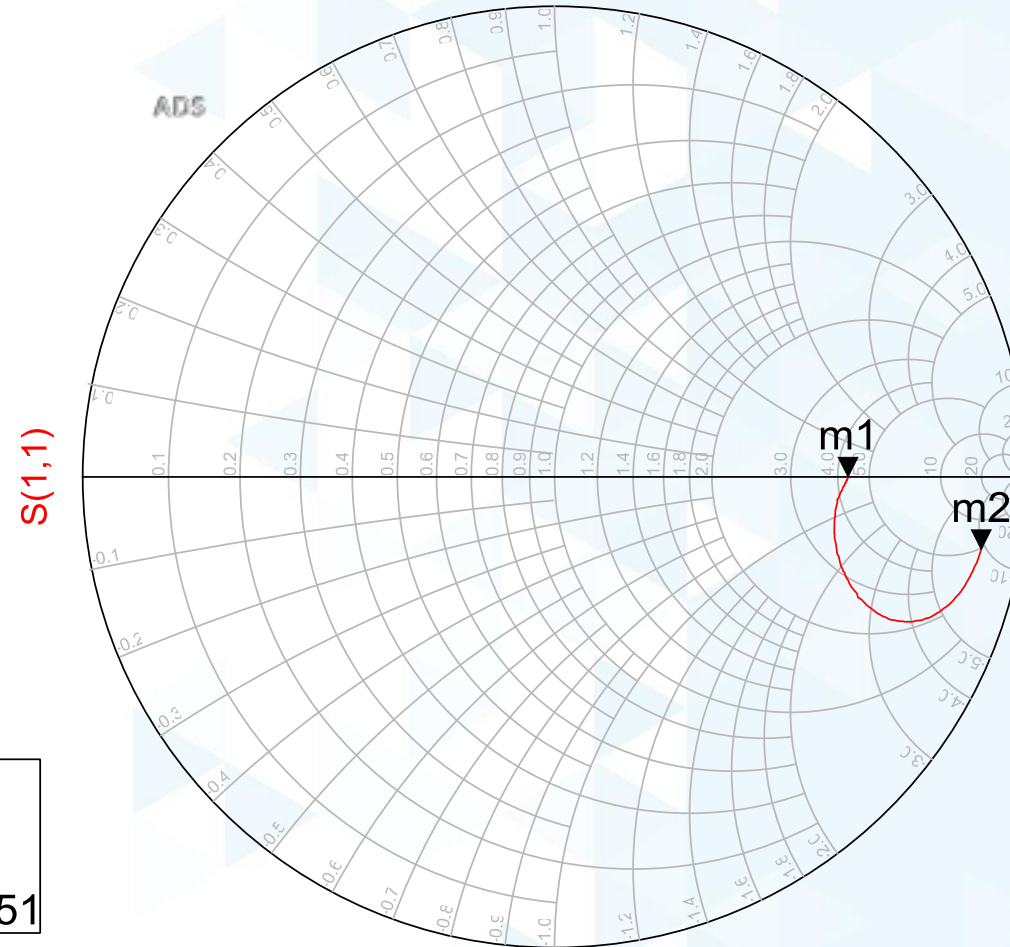


S11: Gain = 6 dB, 3.3 volts

- ▶ Input impedance with $Z_{load} = 50 \text{ ohm Diff}$:
 - Input pins selected for 6 dB gain, 200 ohms differential Input Z.

m1
freq=10.00MHz
 $S(1,1)=0.622 / -4.103E-4$
impedance = 214.550 - j0.003

m2
freq=3.000GHz
 $S(1,1)=0.917 / -9.670$
impedance = 241.077 - j468.051



freq (10.00MHz to 3.000GHz)

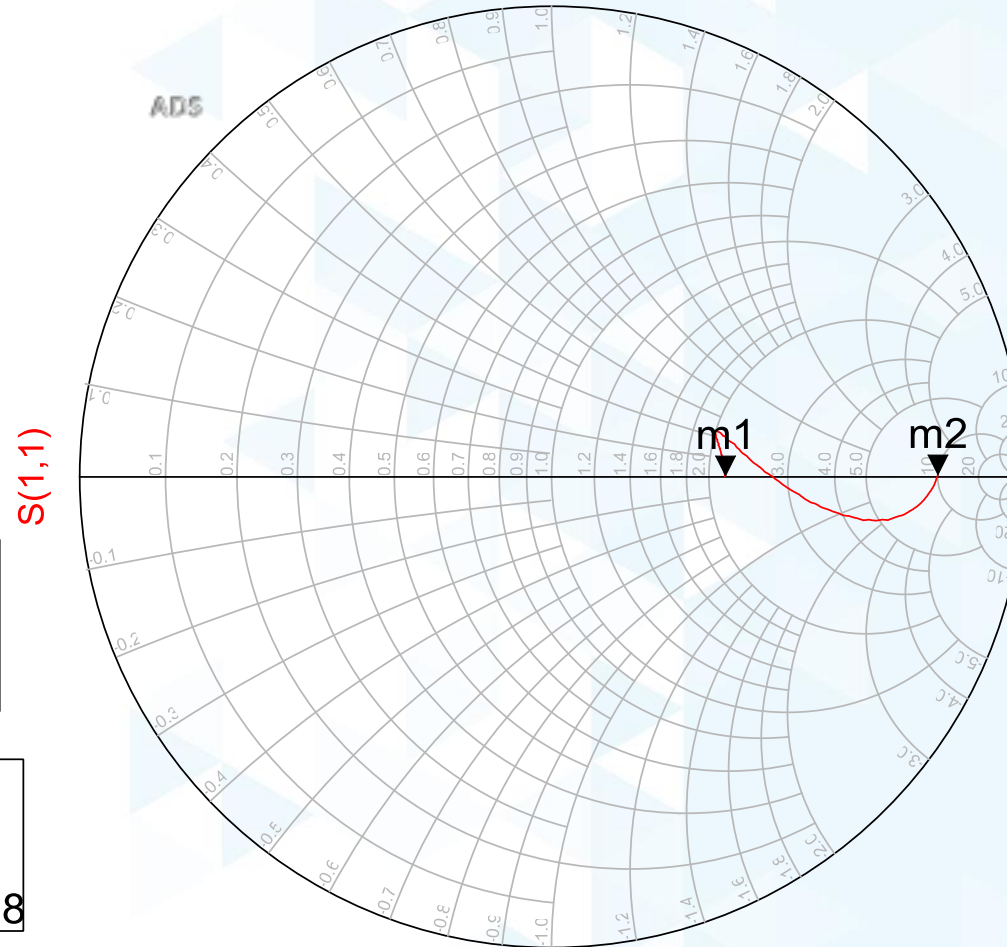


S11: Gain = 12 dB

- ▶ Input impedance with $Z_{load} = 50 \text{ ohm Diff}$:
 - Input pins selected for 12 dB gain, 100 ohms differential Input Z.

m1
freq=10.00MHz
 $S(1,1)=0.369 / 0.424$
impedance = $108.370 + j0.684$

m2
freq=3.000GHz
 $S(1,1)=0.819 / 0.335$
impedance = $501.526 + j14.568$



freq (10.00MHz to 3.000GHz)

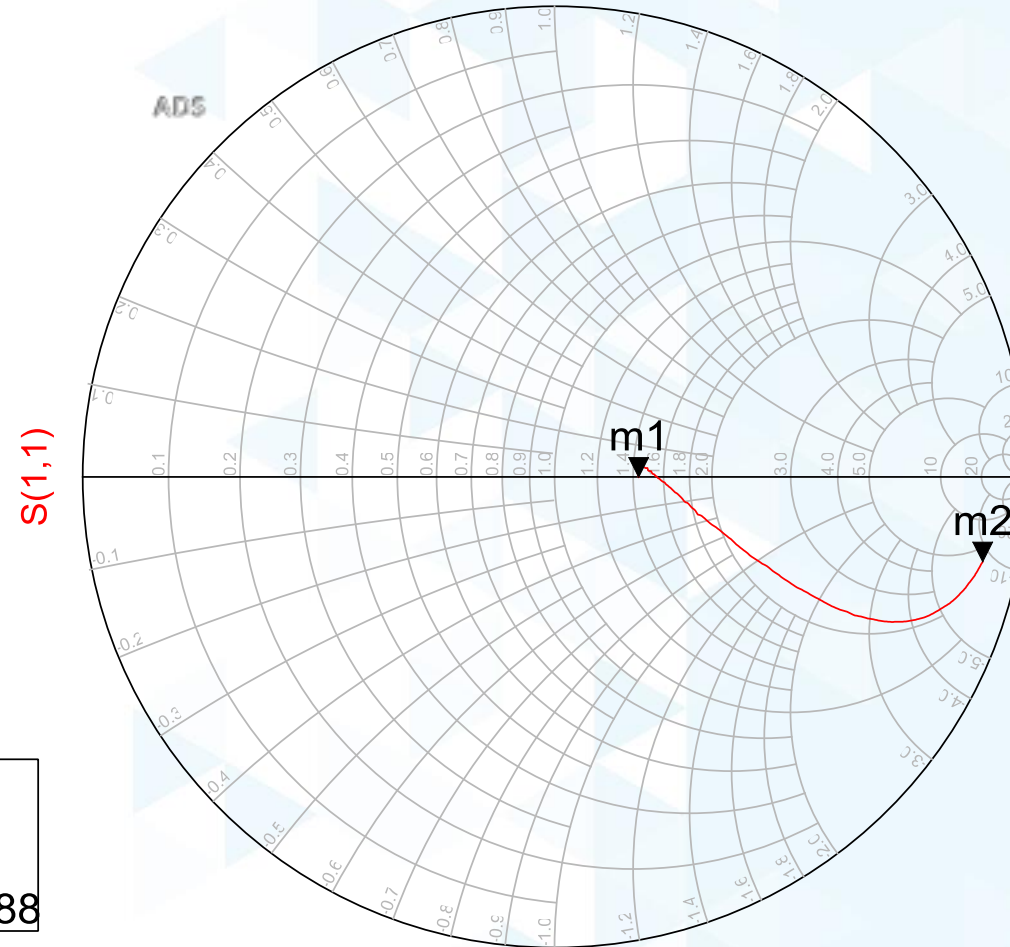


S11: Gain = 15.5 dB, 3.3 volts

- ▶ Input impedance with $Z_{load} = 50 \text{ ohm Diff}$:
 - Input pins selected for 15.5 dB gain, 67 ohms differential Input Z.

m1
freq=10.00MHz
 $S(1,1)=0.178 / -0.126$
impedance = $71.661 - j0.058$

m2
freq=3.000GHz
 $S(1,1)=0.925 / -11.227$
impedance = $176.353 - j438.588$



freq (10.00MHz to 3.000GHz)

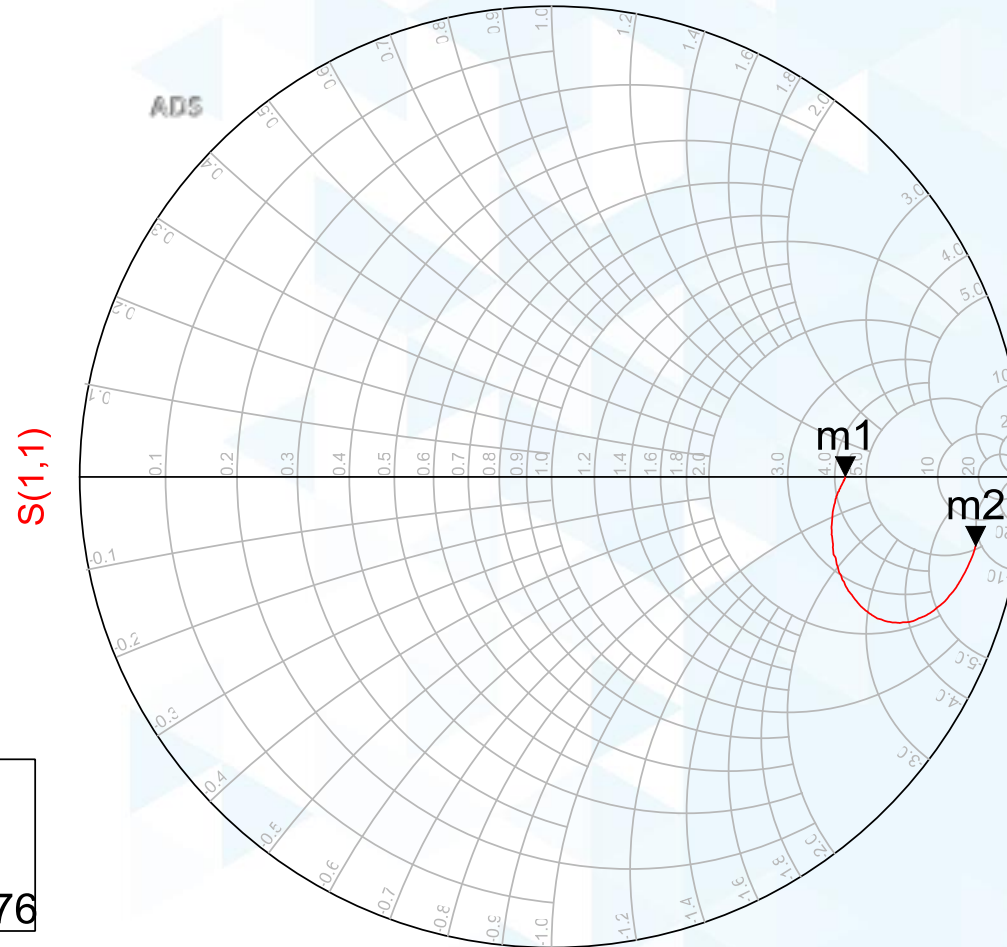


S11: Gain = 6 dB, 3.3 volts

- ▶ Input impedance with $Z_{load} = 200 \text{ ohm Diff}$:
 - Input pins selected for 6 dB gain, 200 ohms differential Input Z.

m1
freq=10.00MHz
 $S(1,1)=0.622 / 0.079$
impedance = $214.811 + j0.605$

m2
freq=3.000GHz
 $S(1,1)=0.911 / -9.257$
impedance = $269.490 - j461.676$



freq (10.00MHz to 3.000GHz)

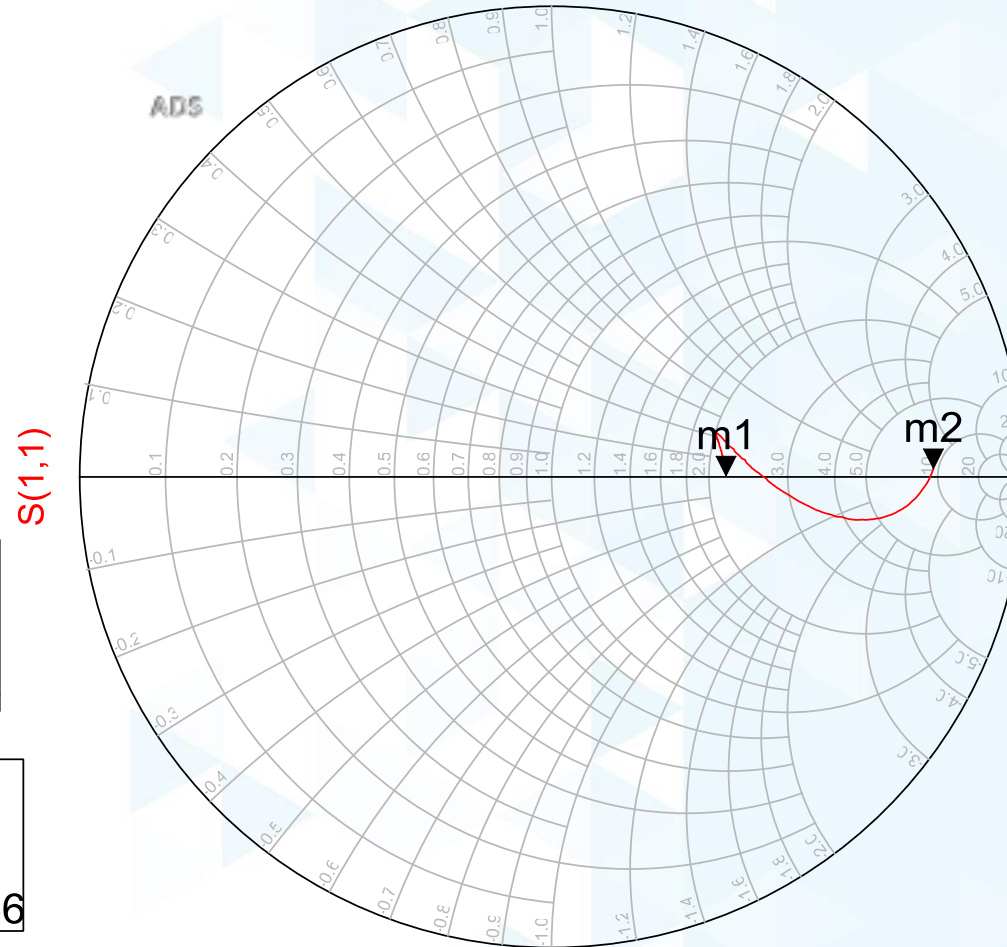


S11: Gain = 12 dB

- ▶ Input impedance with $Z_{load} = 200 \text{ ohm Diff}$:
 - Input pins selected for 12 dB gain, 100 ohms differential Input Z.

m1
freq=10.00MHz
 $S(1,1)=0.370 / 0.307$
impedance = $108.621 + j0.498$

m2
freq=3.000GHz
 $S(1,1)=0.809 / 1.238$
impedance = $469.765 + j47.656$



freq (10.00MHz to 3.000GHz)

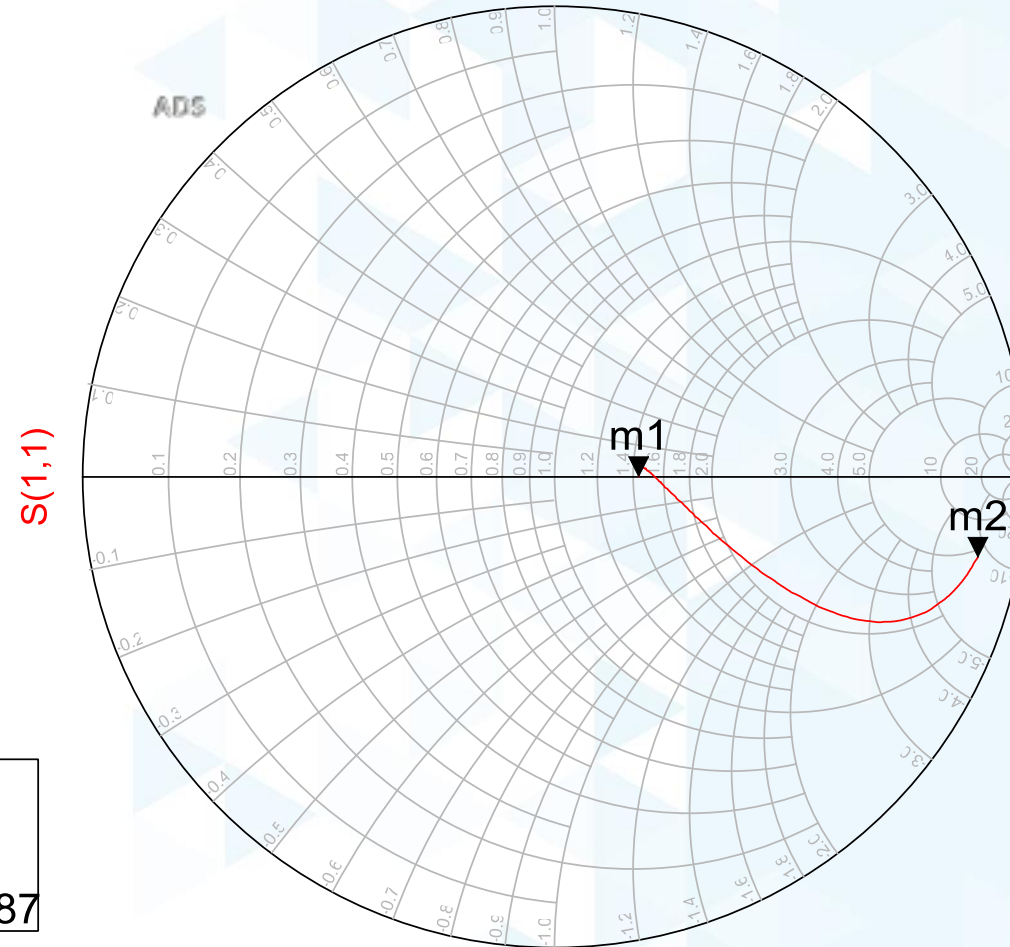


S11: Gain = 15.5 dB, 3.3 volts

- ▶ Input impedance with $Z_{load} = 200 \text{ ohm Diff}$:
 - Input pins selected for 15.5 dB gain, 67 ohms differential Input Z.

m1
freq=10.00MHz
 $S(1,1)=0.178 / 0.277$
impedance = $71.714 + j0.128$

m2
freq=3.000GHz
 $S(1,1)=0.913 / -10.731$
impedance = $210.565 - j430.487$



freq (10.00MHz to 3.000GHz)

