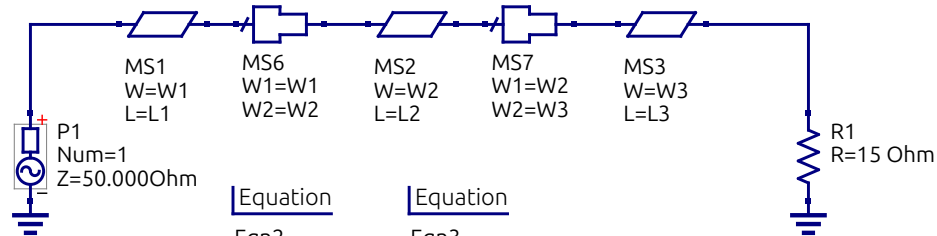


Chebyshev transformer 50 Ω to 15 Ω @ 1 GHz

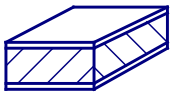


Equation

Eqn2
mm=1e-3
W1=1.57*mm
W2=2.7*mm
W3=4.4*mm

Equation

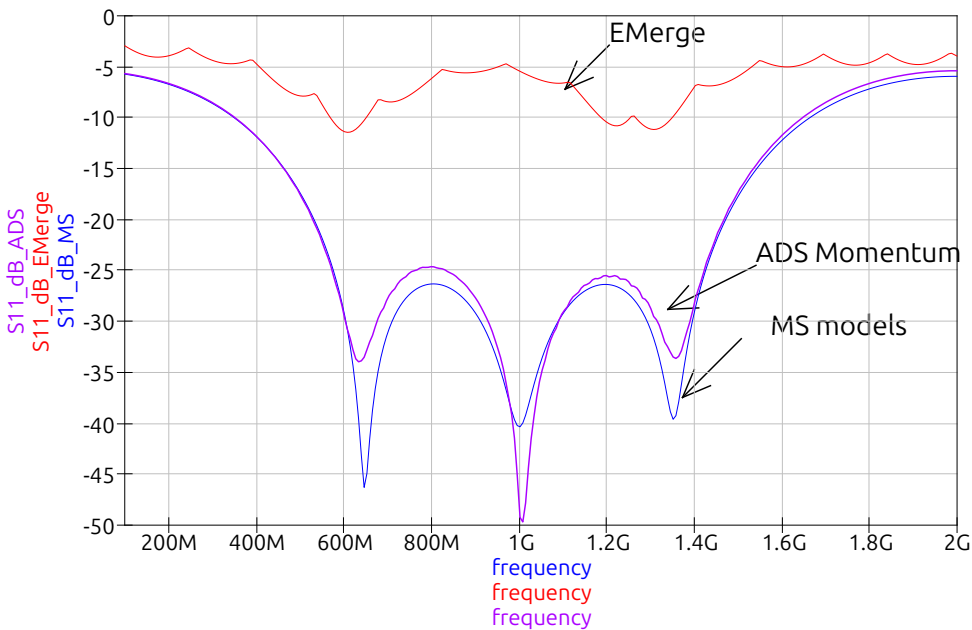
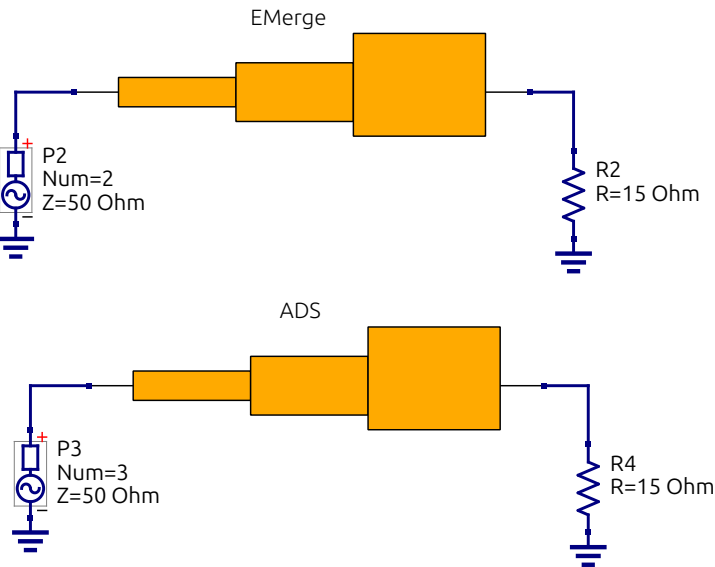
Eqn3
L1=44.38*mm
L2=43.33*mm
L3=42.46*mm



RO4003C
er=3.55
h=0.508mm
t=12.5um
tand=0.0125
rho=2.43902e-08
D=0

Equation

Eqn1
S11_dB_MS=dB(S[1,1])
S11_dB_EMerge=dB(S[2,2])
S11_dB_ADS=dB(S[3,3])



Chebyshev Tapered Transformer

Drawn By: Andrés Martínez Mera

Date: June 26, 2025

Revision: