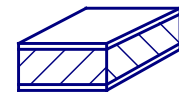
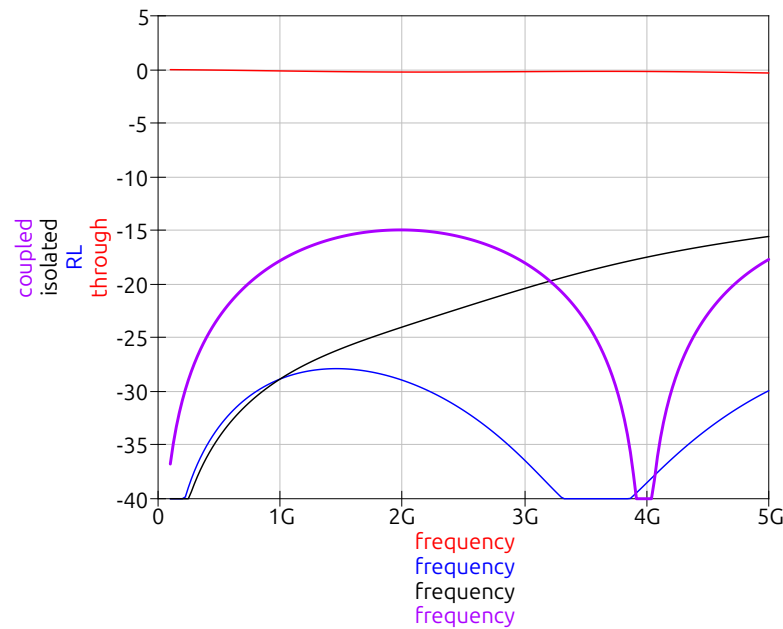


#### Equation

Eqn2  
 $L_{\text{coupled}}=22.750$   
 $W_{\text{coupled}}=1$   
 $S_{\text{coupled}}=0.300$   
 $W0=1.08$   
 $L_{\text{feed}}=10.0$   
 $L_{\text{trans}}=L_{\text{feed}}/20$

#### Equation

Eqn3  
 $mm=1e-3$   
 $L_{\text{coupled\_mm}}=L_{\text{coupled}}*mm$   
 $W_{\text{coupled\_mm}}=W_{\text{coupled}}*mm$   
 $S_{\text{coupled\_mm}}=S_{\text{coupled}}*mm$   
 $W0\_mm=W0*mm$   
 $L_{\text{feed\_mm}}=L_{\text{feed}}*mm$   
 $L_{\text{trans\_mm}}=L_{\text{trans}}*mm$



Substrate  
 $\epsilon_r=3.55$   
 $h=0.508 \text{ mm}$   
 $t=35 \text{ um}$   
 $\tan\delta=2e-4$   
 $\rho=0.022e-6$   
 $D=0.15e-6$

#### Equation

Eqn1  
 $RL=dB(S[1,1])$   
 $through=dB(S[2,1])$   
 $coupled=dB(S[3,1])$   
 $isolated=dB(S[4,1])$

15 dB Coupler: MS models	
Drawn By: Andrés Martínez Mera	
Date: Jun 25th, 2025	Revision: