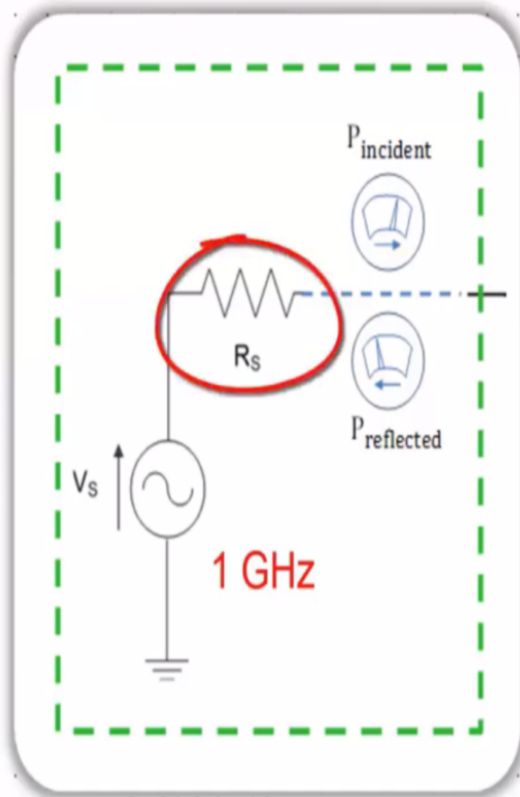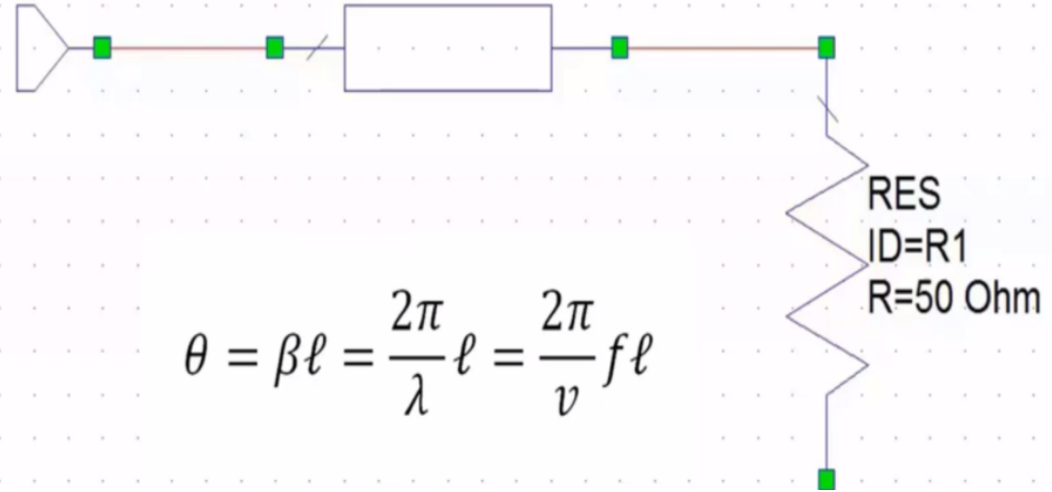PORT
P=1
Z=50 Ohm

Rs is like Z=50 ohm
and the port can measure dierctional power or called the reflection coeffcient the Pin an pout

impedance equals to zed which in this

P_incident

R_S

V_S

1 GHz

P_reflected

TLIN
ID=TL1
Z0=50 Ohm
EL=20 Deg
F0=10000 MHz

PORT
P=1
Z=50 Ohm

RES
ID=R1
R=50 Ohm

EL and the F0 is connected for any F0 there is diffrent El

$$\theta = \beta\ell = \frac{2\pi}{\lambda}\ell = \frac{2\pi}{v}f\ell$$

S11 on polar for F0=1Ghz is equall 0 as the port,tline,load have 50ohm means max power transfer on 1Ghz

Cange the fonts size from the graph properties and you can copy the graph to other places , this should be tried important point also the polar limit can be set also to max value 1

tune El will leads to round move.

gamma

Mag Max
1

0.2
Per Div

this values are shown in a much uh more

S(1,1)
txline_load
1000 MHz

Swp Min
1000 MHz

gamma

Mag Max
1.2e-010

S(1,1)
txline_load

4e-011
Per Div

its position its radial position along

Swp Min
1000 MHz