

Enter values directly, or click spinners, or click and hold spinners.

Freq - VF - Len - WL Conversions

Print

1. Choose Transmission Line, Modify Parameters if Desired.

Type	Ro	VF	K1	K2	(Serenade equivalents)	
Belden 8240 (RG-58)	51,5	0,66	0,341904	0,003767	C1	C2
					0,354723	0,123589

2. Set Frequency, R, and X.

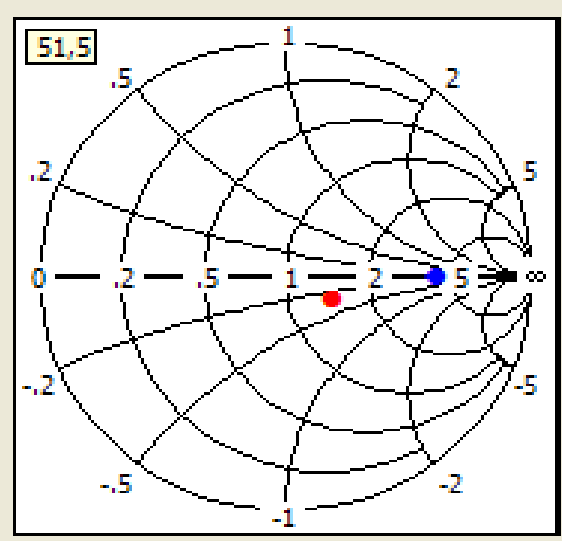
MHz	R	X	At Input	Matched Loss	Plot
145,05	206	0	<input type="radio"/>	dB / 100 m	
MHz			<input checked="" type="radio"/>	15,302	K1/K2
KHz					
Band					

3. Set Line Length and Input Power.

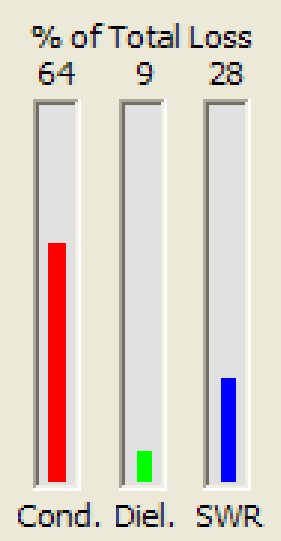
Length	Units	Electrical Length Modulo 1/2 Wavelength	Input Watts
30,0624	Meters	22,0382 λ	10
		7933,76 °	

Results

	At Input ●	At Load ●
R	73,07	206,00
X	-14,69	0,00
Z	74,53	206,00
SWR	1,525	4,000
SWR (51,5)	1,525	4,000
Line Zo	51,5 -j 0,000	



	Loss	% of Total Loss
	dB	W
Cond.	4,061	4,915
Diel.	0,539	0,652
SWR	1,746	2,113
Total	6,346	7,681
Power at Load	2,319 W	



- Show Rho in place of SWR
- Ignore Line Xo in calculations

Prime Center 51,5

Close