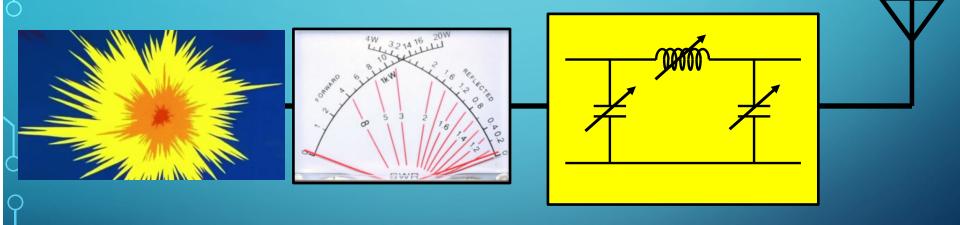


QRP TRANSCEIVER KITS

- Many designs
- •\$25 \$150
- Simple circuits, lots of SDRs and SMD's
- No protective circuitry, intolerant of high SWR

QRP TRANSCEIVER KITS



You Have to Have a Tuned Antenna BEFORE You Apply Power, But You Can't Tune the Antenna Without Applying Power

QRP ANTENNA TUNER

- •Prevents the transceiver from seeing high SWR.
- •SWR always < 2:1 while tuning.

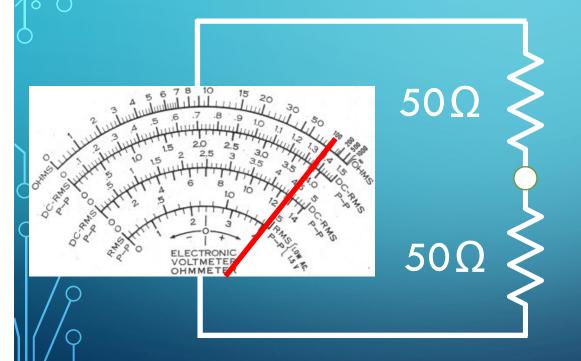


VOLTAGE DIVIDER

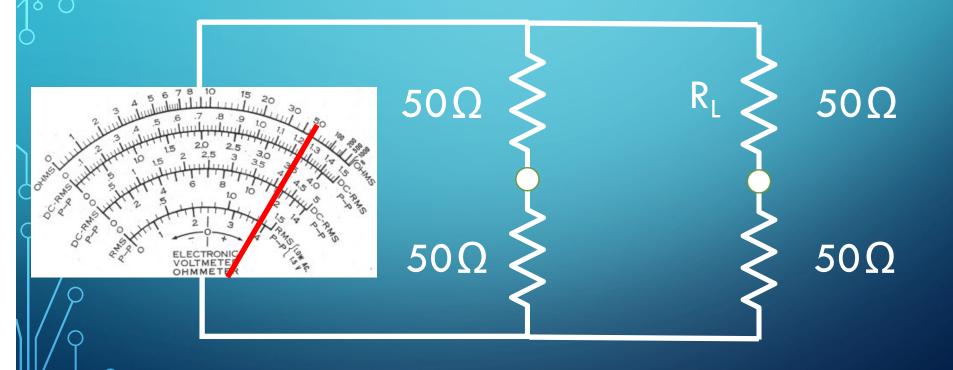
50Ω 10 V 50Ω

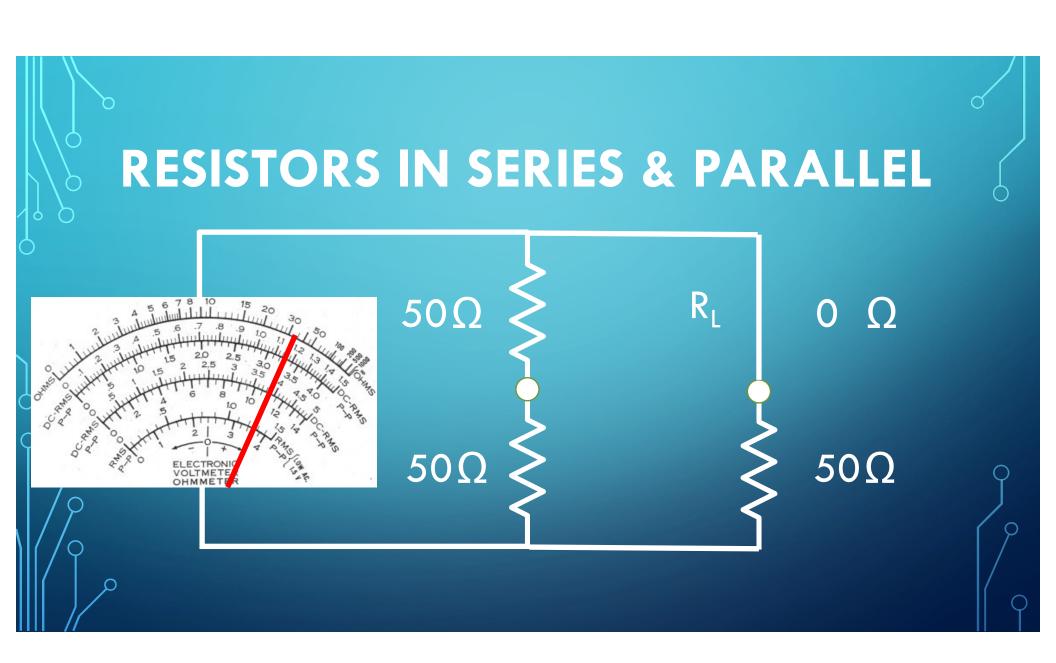


RESISTORS IN SERIES & PARALLEL

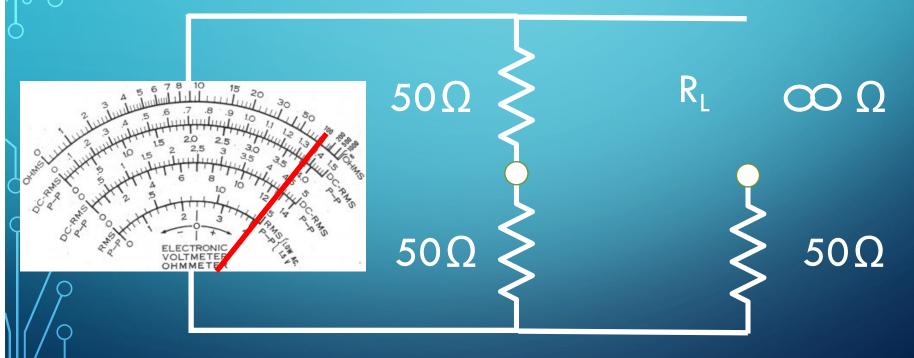






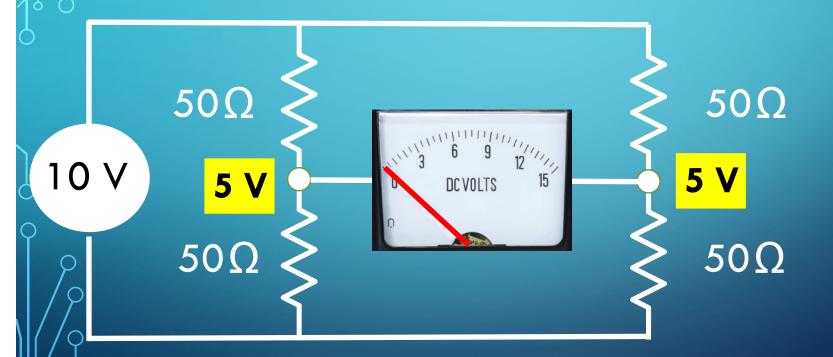


RESISTORS IN SERIES & PARALLEL

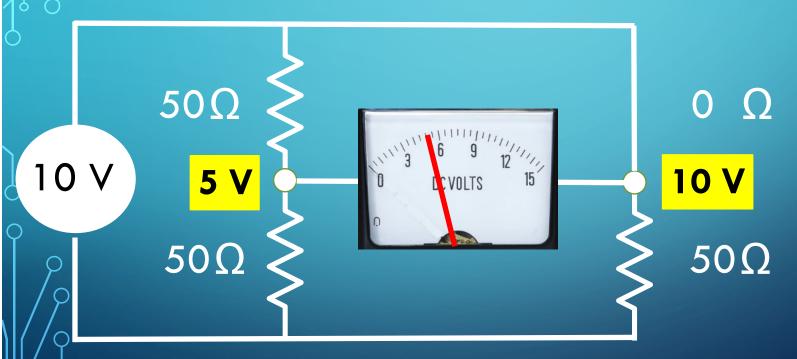


 $^{\circ}$ No matter what R_L is, the ohmmeter will always see 33 < R < 100 ohms

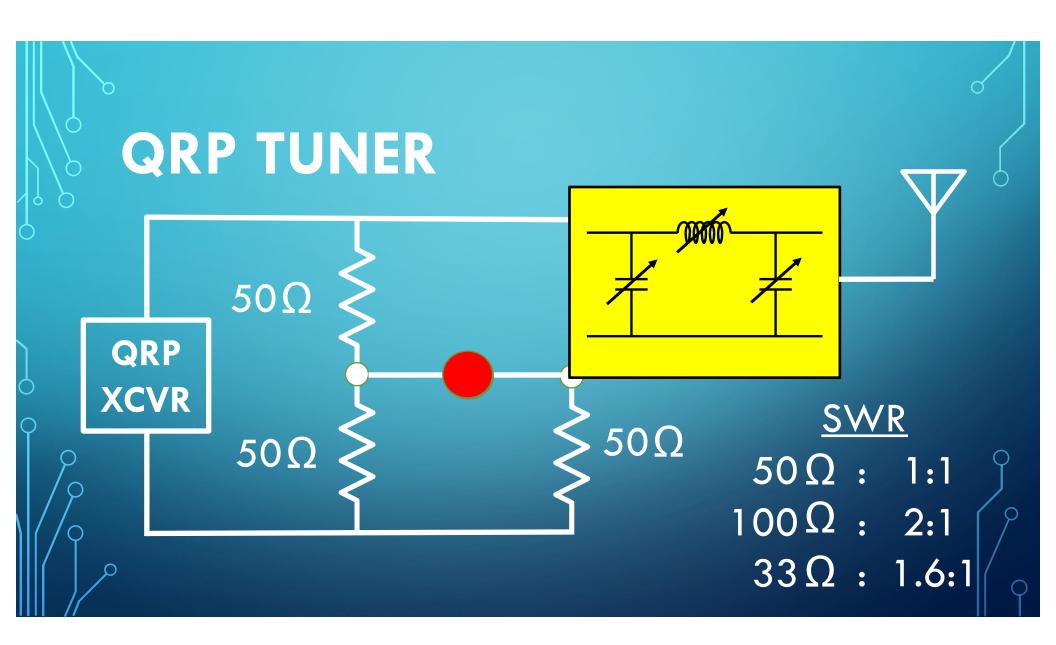
BRIDGE CIRCUIT

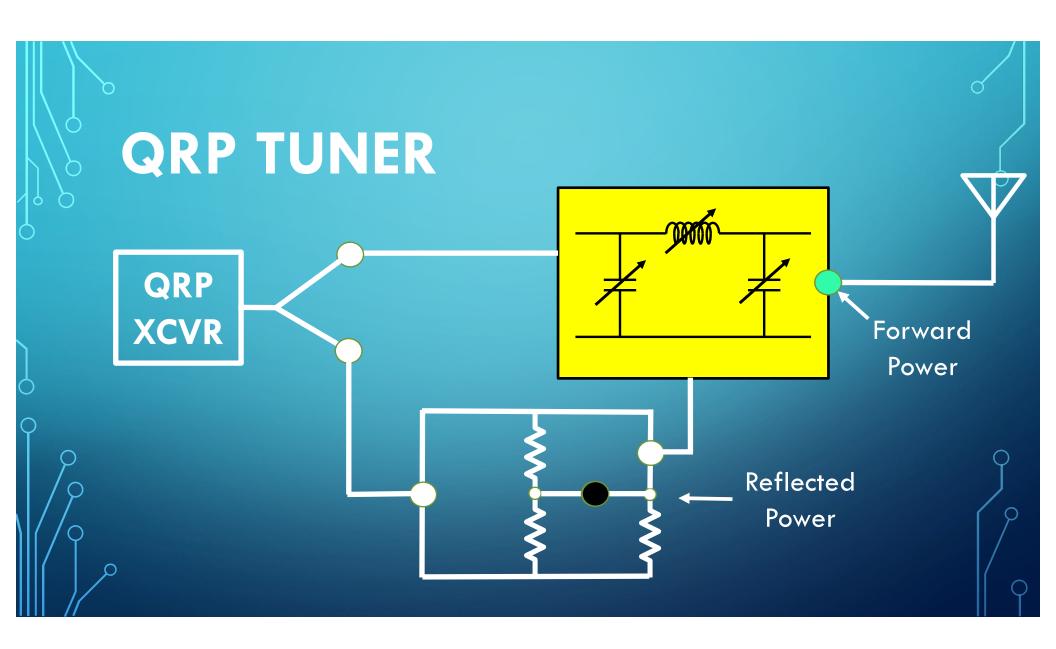


BRIDGE CIRCUIT



BRIDGE CIRCUIT 50Ω $\infty \Omega$ 10 V 5 V CVOLTS 50Ω 50Ω

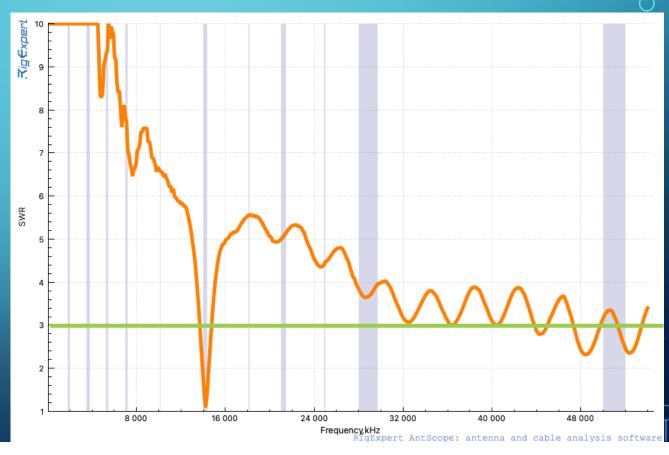




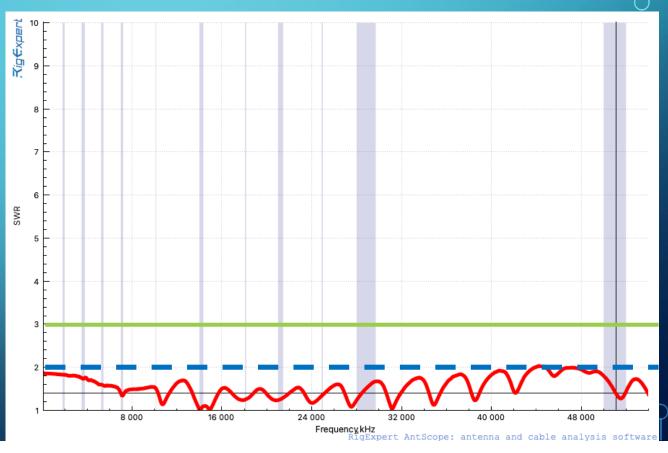
Component Side



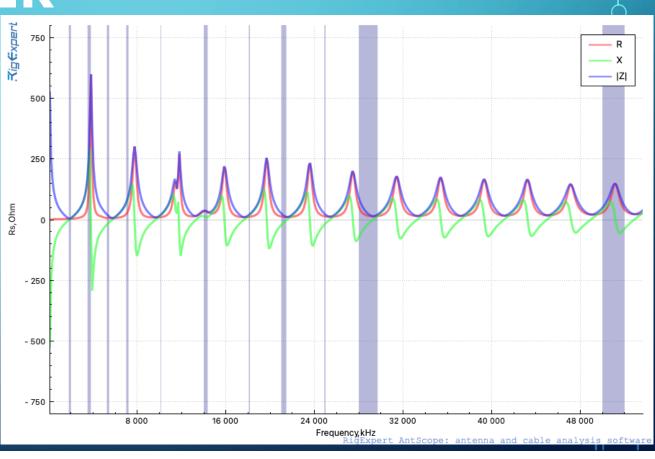
20 Meter
Dipole
No Tuner



20 Meter Dipole With Bridge And Tuner



20 Meter
Dipole
Complex
Impedence



20 Meter
Dipole
Complex
Impedence
With Tuner
& Bridge

