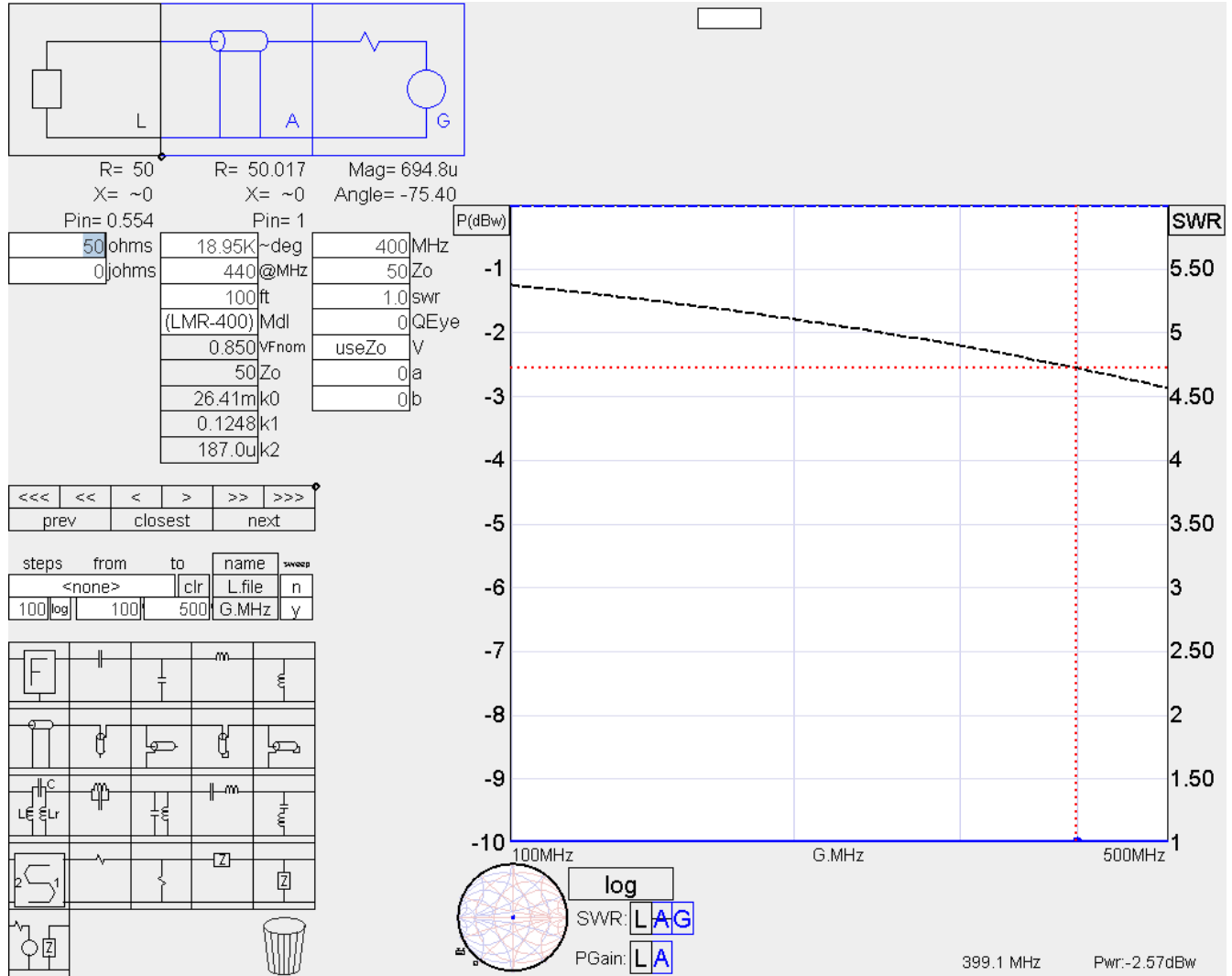


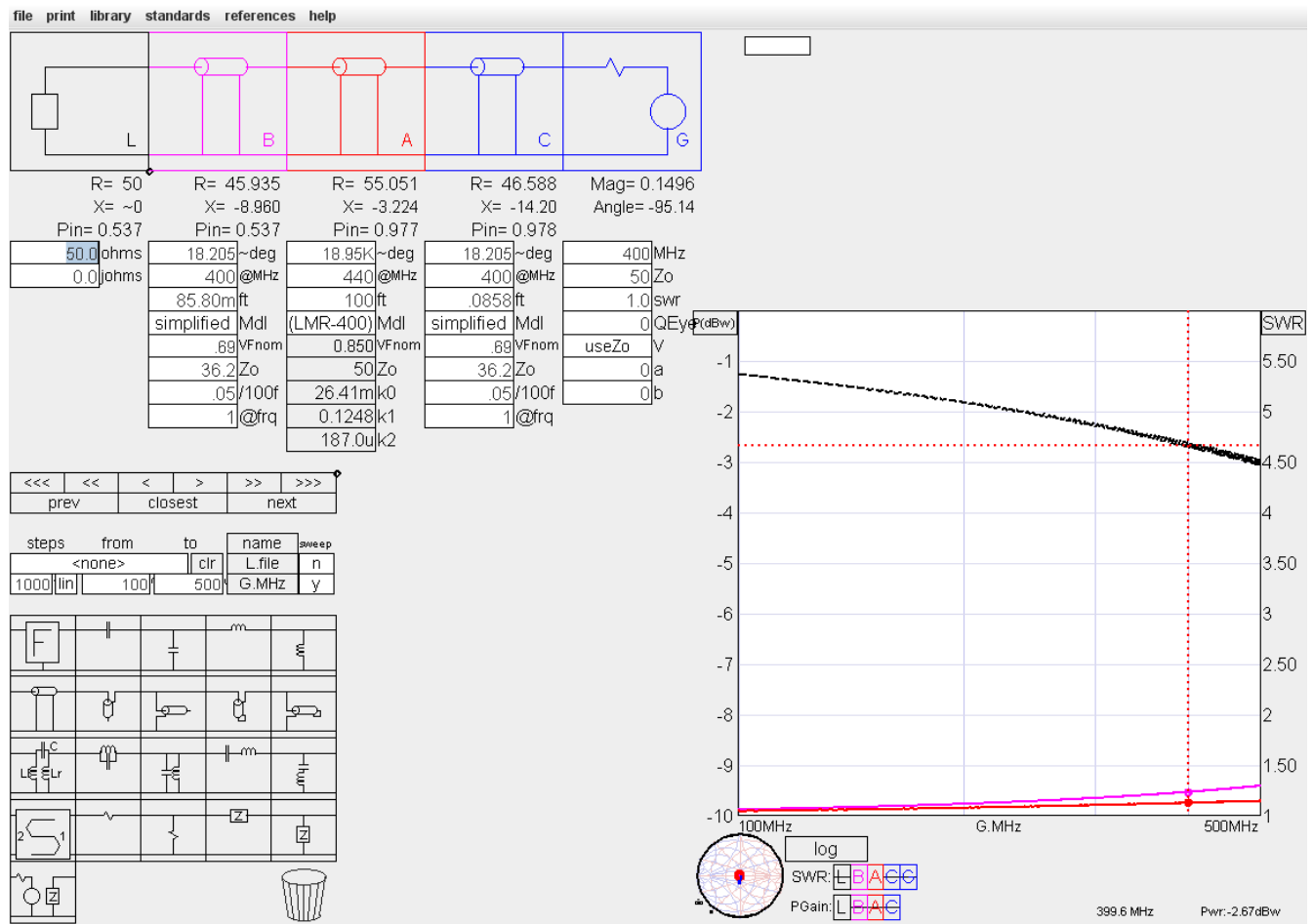
## Let's Get Real -- UHF Connectors in a Real System

Larry Benko has done a quite elegant analysis of a mated pair of UHF connectors, but his model does not include any cable. One draws very different conclusion when one enters the real world. Here's 100 Ft of LMR400 with no connectors.



100 Ft of LMR400 without connectors Loss to load -2.57 dB @ 400 MHz

Now add two SO239-PL259 Junctions Per Larry's Analysis. Loss to load = 2.67 dB @ 400 MHz



Conclusion: Loss in one SO239-PL259 junction = 0.05 dB @ 400 MHz The impedance bump does not matter!

73, Jim Brown K9YC