

EECS 212

S.P. 14-B

A capacitor has a series capacitance of 10 nF at $f = 2$ MHz, with a Q value of 3. of value. What is its series resistance at this frequency? What are the parallel capacitance and resistance at this same frequency? Is the value of Q in this configuration the same?

S.P. 14-BB

An inductor has a series inductance of 10 mH and a Q of 10 at $f = 1$ kHz. Find the values of the parallel inductance and resistance.