

Homework Assignment Sample

A microstrip line is used as a feed line to a microstrip patch. The substrate of the line is alumina ($\epsilon_r \approx 10$) while the dimensions of the line are $w/h = 1.2$ and $t/h = 0$. Determine the effective dielectric constant and characteristic impedance of the line. Compare the computed characteristic impedance to that of a 50-ohm line.