

2.10 Use Module 2.3 to design a $100\ \Omega$ microstrip transmission line. The substrate thickness is 1.8 mm and its $\epsilon_r = 2.3$. Select the strip width w , and determine the guide wavelength λ at $f = 5\text{ GHz}$. Include a printout of the screen display.

Solution: According to the solution provided by Module 2.3, the required strip width is

$$w = 1.542\text{ mm},$$

and the guide wavelength is

$$\lambda = 0.044\text{ m}.$$

