



TDR result with DUT

The point at cursor “a” is the ending point for the round way trip of the falling edge.

According to the microstrip design in Part III:

$$\text{Round Way Time} = 686\text{ps} = 0.686 * 10^{-9} \text{ s}$$

The Length is 0.06 m

Thus,

$$\begin{aligned} Dk &= \frac{2.25 * 10^{16} * (\text{Round Way Time in Second})^2}{(\text{Length in Meter})^2} \\ &= \frac{2.25 * 10^{16} * (0.686 * 10^{-9})^2}{(6 * 10^{-2})^2} \\ &= 2.941225 \end{aligned}$$