

Transmission Line Calculations



A lossless transmission line has distributed parameters $L = 1 \text{ mH/m}$ and $C = 5 \text{ pF/m}$ and carries a forward traveling voltage wave with amplitude 10 V at the frequency of 2 MHz . The line is terminated in the load impedance of 72Ω . Calculate (a) characteristic impedance, (b) beta, (c) reflection coefficient at the load, (d) return loss in dB.



To solve this, we'll use the standard transmission line formulas for a lossless line.

Given:

- $L = 1 \text{ mH/m}$
- $C = 5 \text{ pF/m}$
- $V_f = 10 \text{ V}$ (amplitude of forward traveling wave)
- $f = 2 \text{ MHz}$
- $Z_L = 72 \Omega$ (load impedance)

(a) Characteristic Impedance (Z_0)

For a lossless transmission line, the characteristic impedance is given by:

$$Z_0 = \sqrt{\frac{L}{C}}$$

Substituting the values of L and C :

$$Z_0 = \sqrt{\frac{1 \times 10^{-3}}{5 \times 10^{-12}}} = \sqrt{2 \times 10^8} = 1414.21 \Omega$$

(b) Phase constant (β)

The phase constant (β) is related to the wavelength of the signal and can be calculated as:

$$\beta = \omega \sqrt{LC}$$

where:

- $\omega = 2\pi f$ is the angular frequency,
- $f = 2 \text{ MHz} = 2 \times 10^6 \text{ Hz}$.

First, calculate the angular frequency:

Line Transmission Calculations

Michael Brown



Line Transmission Calculations:

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