

ABSTRACT

Slotted Line is a transmission line that has a longitudinal slot of the electromagnetic wave propagation that flows inside. The slotted line also has a basic construction resembling a coaxial cable that has a characteristic impedance value of 50Ω . This tool can be used to measurement in transmission line is to measure impedance through VSWR and reflection coefficient, secondary channel constants and primary constants and then frequency and wavelength.

The purpose of making this final project is to realize a simple telecommunication device that can be used in practical activities at Antenna and Wireless Communication Laboratory. The slotted line of this final project is designed to have a characteristic impedance value of 50Ω , $VSWR \leq 2$ and a frequency range from 100 MHz - 200 MHz.

The design of this final project will be in accordance with the specified specification, to know the output according to the initial specification, determining the working frequency whether it is in accordance with the desired working frequency and also the characteristic impedance value is 50Ω and $VSWR \leq 2$.

Keywords : Slotted Line, coaxial, characteristic impedance, Frequency