

ABSTRACT

Antenna is device to match the intrinsic impedance of propagation space and the characteristic impedance of radio channel.

Unidirectional Klopfenstein Tricula is the antenna based on three-wire that are arranged of twin wires and plates with dielectric materials. This antenna is built on Klopfenstein gradual matching

In this final project, wide band antenna was applied. It is Tricula Klopfenstein Unidireksional Antenna for range 300 MHz – 3000 MHz $SWR \leq 1.5$, Linear Polarization, Gain ≥ 2.14 dBi, Without Ferrite.

From the result, which done of the measurement, commonly the result obtained which close from scheme specifications at frequency of 1118.1 MHz – 2907.1 MHz got VSWR all under 1.5. Radiation pattern unidirectional, polarization close with linear (ellipse), obtained gain 8.184 dBi at frequency of 1650 MHz, 8.125 dBi at frequency of 2400 MHz, and 7.708 dBi at frequency of 2900 MHz

Key word : Unidirectional Tricula, 300 MHz – 3000 MHz range frequency.