

ABSTRACT

To get knowledge everywhere will be good if we can apply that knowledge based on our need and advantages that we can get. Stage in study and design antenna is one of knowledge methode in telecommunication science that can useful for makes communication system for human being. Antenna as a transmitter or a receiver on system, because of that we can send and receive information. So STTTELKOM Electrical Engineering Students who also designed this antenna try to combine theory and practical knowledge for human being

An appropriate technical drawing design gives prototype and design result from kolinier ohmnidirectional dipole-magnetic antenna and also gives dimension specification and test for impedance and VSWR, pole radiation, efficiency, gain test, and polarization test.

This project objective is to create Kolinier Omhnidirectional-Dipole-Magnetic antenna based on technical drawing design and quality specification is used has been tested and ready to use.

To know performance of this antenna is needed a measurement mechanism. The measurement consist of VSWR measurement, bandwith, radiation pattern and antenna gain. From measurement result is got bandwith with $VSWR \leq 1,3$ limits 35 MHz with specification 84 MHz (2400 MHz – 2484 MHz, $VSWR \leq 1,3$), radiation pattern is omnidirectional and can get gain 6,691 dBi.