

ABSTRACT

From a hypothesis that antenna is defined as construction of transition of transmission lines as a matching between propagation spaces with characteristic impedance of radio frequency. Thus it had been made an experiment to find out the truth of hypothesis.

On design and realization of dwicula binomial antenna's need calculation between antenna that want with prototype that will make and also warn material and fixed size. Therefore, we need to design a good technic drawing design in order to the antenna that want to be will be a suitable antenna such as from dimension or parameters that want to be, and then the antenna's performance will be maximum. Anyway, the antenna's parameter that calculating like impedance and VSWR, radiation pattern, efficiencies, gain, and CPL's polarity (Circular Polarisation Loss)

At this final project has been realized Dwicula Binomial Antenna mode which as according to device draw technique with tired specification bandwidth 1000 MHZ at frequency region 1500MHZ - 2500MHZ with limited by $SWR \leq 1,5$ and have Unidirectional pattern and Elliptical polarization and also tired gain 3,83 dBi. Inferential of This Dwicula Binomial Antenna have been tested by specification quality and ready to be used to various need.

The project hoped can generate prototype as like that want it and can be use that the function maximum.