ABSTRACT

Dielectric measurements an electronic component is necessary, this is due to the higher dielectric value of a component has a current-carrying means little or nothing , so we can know how good conductivity of an electronic component . Dielectric measurements can be performed with parallel plate method, breakdown voltage method, cavity method , and others .

At the end of the project will discuss the dielectric measurements of an object using the cavity method . Cavity is an object made of aluminum and shaped like small cans , but at the end of this project will be used as cavity cans . By using a tin can to cut expenses , because the price is very cheap . In practice, these cans will be linked to the VNA (Vector Network Analyzer) , in which the VNA will display the measurement results of a measurement object .

The results of the final project in the form of hardware that can assist a person in performing the dielectric measurements of an object . Testing is done by performing direct measurements and compared the results with measurements using other methods Additionally, it will be seen accuracy , resolution , and accuracy of the dielectric measurement methods .

Key Word : *cavity*, dielectric, VNA (*Vector Network Analyzer*)