

ABSTRACT

In the wireless communication system is needed because the filter of electromagnetic wave propagation path experiencing a lot of interference and noise that cause interference among many unwanted frequencies coming into the system that we created. Filters have many types and one of them is a band pass filter that passes frequencies below the cut-off frequency and lower cutoff.

Synthetic Aperture Radar (SAR) is the technology used in satellite communications systems used for remote sensing or commonly referred to as remote sensing. SAR system uses 1265-1275 MHz frequency. The use of this frequency refers to penilitian LAPAN and refrensidari ORARI where the use of the L band can be up to forms of land surface of the earth to orbit LEO (Low Earth Orbit) .In this condition experienced by many interfrensi SAR satellites themselves, for these conditions, in this final project designed band pass filter placed on the receiver. With a fairly narrow bandwidth of only 10 MHz it takes a sharp slope to the chosen method of Chebyshev which has a high selectivity

Keywords: band pass filter, Chebyshev, slope.