

## MICROWAVE PASSIVE COMPONENTS

Microwave frequency range:-

Microwaves are electromagnetic waves with wavelengths ranging from 1cm to 1mm

Frequency range - 10GHz to 300GHz

Three major bands at the highest end of RF spectrum

- (i) UHF - 3 to 30GHz
- (ii) SHF - 3 to 30GHz
- (iii) EHF - 30 to 300GHz

Most applications of  $\mu$ w Technology make use of frequencies in the 1 to 40GHz range.

Advantage:-

- (i)  $\mu$ w system can carry large quantities of information at high operating frequency.
- (ii) It requires relatively small antennas
- (iii)  $\mu$ w signals are more easily propagated around physical obstacles such as water & high mountains
- (iv) Fewer repeaters are necessary for amplification
- (v) Minimal cross talk.

# Microwave Engineering Lecture Notes

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