

FAMILIARISATION OF MICROWAVE COMPONENTS

AIM:

To familiarize various microwave components that are used in communication lab.

THEORY:

A microwave bench is an experimental setup consist of various microwave instruments such as waveguides, waveguide Tee, frequency meter, variable attenuator, horn antenna, power supply for the microwave source, VSWR meter etc. Brief details of instruments are given below:

WAVEGUIDES

A hollow metallic tube of uniform cross-section for transmitting electromagnetic waves by successive reflections from the inner walls of the tube is called as a Waveguide.

RECTANGULAR WAVE GUIDE

Wave guides are manufactured to the highest mechanical and electrical standards and mechanical tolerances. L and S band wave guides are fabricated by precision brazing of brass-plates and all other wave guides are in extrusion quality. W.G. sections of specified length can be supplied with flanges, painted outside and silver or gold plated in side.

SPECIFICATIONS X Band

EIA No. : WR - 90

Frequency: 8.2 - 12.4 GHz

Width: 2.286cm Height : 1.1016cm

Width: 2.54 cm

Height: 1.27cm $\pm$ Tol. (μ m) : 7.6

Material: Brass/Copper.

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