Abstracts

Development of an X-Band Waveguide Frequency Discriminator (Correspondence)

S.R. Mishra and R.P. Wadhwa. "Development of an X-Band Waveguide Frequency Discriminator (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.9 (Sep. 1970 [T-MTT]): 660-661.

The development of an X-band waveguide frequency discriminator is discussed. It is quite versatile and quite simple in construction. The mid-frequency of the desired bandwidth can be conveniently changed by easily changing the additional line length. Furthermore, the sensitivity, defined as change in the output power ratio per unit change in frequency, can also be conveniently varied by varying the additional line length. Higher sensitivity would result in a smaller bandwidth for a certain value of P/sub 2/ / P/sub 1/ depending upon the accuracy with which the power/power ratio can be measured.

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