

Abstracts

Variable Bandpass Filters Using Varactor Diodes

S. Toyoda. "Variable Bandpass Filters Using Varactor Diodes." 1981 Transactions on Microwave Theory and Techniques 29.4 (Apr. 1981 [T-MTT]): -363.

A rectangular waveguide type variable bandpass filter for the 4-GHz bandpass has been proposed and tested. The bandpass width varies from 260 MHz to 1.02 GHz for a filter using varactor diodes. Two microstrip variable bandpass filters for the 6-GHz and 4-GHz bands are also proposed and tested. The passband width varies from 310 MHz to 1.24 GHz for a varactor-diode coupled filter, and it varies from 380 MHz to 2.18 GHz for a filter which is composed of low-pass and high pass filters connected in cascade. The center frequency of the three filters can be changed arbitrarily.

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