

Microwave Bandstop Filters with Narrow Stop Bands (1962 [MWSYM])

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In most microwave systems the signal frequency has to be transmitted and guided from one place to another with the minimum of attenuation, while guarding against unwanted frequencies by keeping them out with bandpass filters, which pass only the signal frequency. While the common types of bandpass filters do an adequate job for most applications, they suffer from some disadvantages in particular situations. It may, for instance, happen that some one interfering frequency is particularly strong and special measures have to be taken to suppress it; or that a limited number of frequencies are being generated in a frequency generator system, but these frequencies have to be kept apart and pure. In those cases, a bandpass filter, which discriminates against all frequencies outside the passband, will not be as efficient as one or more bandstop filters which discriminate especially against the strongest unwanted frequencies.

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