

عنوان مقاله:

Design and optimize microstrip low-pass filter with a sharp roll of, compact size, wide stop band and low input loss

محل انتشار:

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خلاصه مقاله:

One of the important elements in microwave technology is the use of microstrip filters. In telecom circuits, filters are doing two important functions: Noise-canceling and separating different frequency bands. This filter is designed by using different geometric shapes on electric substrate. In this paper filter is designed with a T-shaped resonator. The resonator elements are important in determining the cutoff frequency on filter. In this paper we used the T shaped resonator because this resonator has a good sharp response in the transition band. The proposed filter has a wide bandwidth of 4.7 GHz to 27.6 GHz also the return-loss and insertion loss are more than 20 db and $<0.2\text{db}$ and in the transition band filter has a good response and the size of filter only 0.076×0.074

کلمات کلیدی:

Compact size, Microstrip filter, Sharp roll of, Wide stopband

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