

Abstracts

Bandpass Filters Using TM/sub 010/ Dielectric Rod Resonators

Y. Kobayashi and S. Yoshida. "Bandpass Filters Using TM/sub 010/ Dielectric Rod Resonators." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 233-235.

New types of miniaturized bandpass filters have been constructed by using TM/sub 010/ dominant mode of a shielded dielectric rod resonator. The next higher order mode exists at an octave frequency band above the TM/sub 010/ mode. It is shown that no spurious response in the octave band, relative bandwidth of 6 % or more, and frequency stability of 10 ppm/°c or less can be realized for these filters. The insertion loss corresponding to the measured unloaded Q of 2800 at 6 GHz is expected.

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