

Abstracts

Design of triple mode TE/sub 01/spl delta// resonator transmission filters

V. Walker and I.C. Hunter. "Design of triple mode TE/sub 01/spl delta// resonator transmission filters." 2002 Microwave and Wireless Components Letters 12.6 (Jun. 2002 [MWCL]): 215-217.

The use of triple mode TE/sub 01/spl delta// cubic resonators for the design of transmission mode filters is presented. Frequency tuning and coupling between modes are studied experimentally. The tunability of all inter-cavity couplings, necessary for the realization of a wide range of transfer functions, is demonstrated with a 6th degree, 5 MHz wide filter at 2 GHz. With an insertion loss of 0.7 dB in a volume of 260 cm/sup 3/, the filter presents a 2:1 volume reduction over conventional TE/sub 01/spl delta// filters.

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