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**Design of Microstrip Wide Stopband Quad-Band Bandpass Filters for Multi-Service
Communication Systems**

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Abstract

This paper presents two planar high performance quad-channel bandpass filters, which are designed based on a novel circular multi-mode resonator. In this paper and for the first time, the proposed resonator is utilized to achieve quad passbands. It consists of diverged feeding lines that are coupled to etched circular cells. The first filter has quite close channels at 2.62, 2.88, 4.34 and 4.67 GHz, which make it appropriate for frequency division duplex(FDD) scheme.

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