

MICROSTRIP DUAL-BAND RING FILTER AT 5 AND 6 GHZ

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ABSTRACT

A microstrip dual-band ring filter is presented based on the use of two dual-mode ring resonators which are coupled directly in series. The dual-band ring filter is presented for dual-band applications at 5 and 6 GHz. The filter is realized on FR4 material with $\epsilon_r = 5.4$ and 1.6mm thickness. A prototype based on the proposed topology is fabricated to validate the concept. The measured results are in agreement with the theoretical predictions.

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