

## Abstract

In this paper, design, fabrication and measurement of a novel microstrip dual-band bandpass filter (BPF) structure with a compact size using FR-4 glass epoxy material is presented. The filter structure is composed of folded non-uniform meander resonators. The proposed filter with a total size of  $0.24\lambda_g \times 0.16\lambda_g$  is designed to exhibit two passbands centred at 2.68 GHz and 5.64 GHz with fractional bandwidths of 25.38% and 10.4%, respectively. The simulation and experimental measurement results are basically in good agreement which validate the proposed approach.