Abstract

In order to fulfill the need of miniaturized electronic filter that can be a part of automotive radar system is proposed in this paper. The suggested filter has two quarter wavelength long parallel coupled line sections with an attachment of Complimentary Split Ring Resonators (CSRRs) and stepped impedance open circuit stub which are connected in shunt at the center. This arrangement of components provides sharp selectivity for the range of 22 GHz to 29 GHz. Proposed filter is a combination of two already designed UWB filters with precised parameters. Therefore it is bound to have low insertion loss and better out of band performance.
Design of Ultra Wideband Band-pass (UWB) Filter using Microstrip Line and Complementary Split Ring Resonators

References


Index Terms

Computer Science

Wireless
Keywords

Uwb  Bandpass  Filter  Microstrip  Csrrs