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iii Acknowledgements First, I would like to thank Almighty Allah for his countless  
blessings upon me. It's a great pleasure to acknowledge my sincere and deepest  
gratitude to my respected supervisor,

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implementing miniaturized band-pass filters based on substrate integrated quasi-lumped elements using multi-layer technologies. One of the main challenges of this work is to envisage a way for implementing strong magnetic and electric couplings in order to design wide-band band-pass filters while introducing transmission zeros in order to

~~Miniaturized wide-band band-pass filter based on substrate ...~~

Miniature wideband filter based on coupled-line sections and quasi-lumped element resonator . By Vitaliy Zhurbenko, Viktor Krozer and Peter Meincke. Cite . BibTex; Full citation; Publisher: Wiley. Year: 2007. DOI identifier: 10.1002/mop.22661. OAI identifier: Provided by: MUCC ...

~~Miniature wideband filter based on coupled-line sections ...~~

Quasi-Lumped Element Quadrature Coupler Design. ... Gilles Jacquemod and Cyril Luxey, New Wideband Miniature Branchline Coupler on IPD Technology for Beamforming Applications, IEEE Transactions on Components, Packaging and Manufacturing Technology, 4, 5, (911), (2014). Crossref. Diane Titz, Fabien ...

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The measured results show that the proposed BPF has a wide bandwidth from 3.0-10.8 GHz, associated the 40 dB shape factor as low as 1.2. A group delay

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variation of less than 0.15 ns in the pass band from 3.0–10.8 GHz is obtained. It also achieves a wide stopband with 20 dB attenuation up to 20.0 GHz.

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A compact planar microstrip ultra-wideband (UWB) bandpass filter (BPF) is presented in this paper. The proposed UWB filter is realised by cascading a high pass filter (HPF) and a low pass filter (LPF). The designed five-pole HPF consists of inter-digital capacitors and short-circuited stubs and has a sharp falling edge at the cutoff frequency.

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**Abstract** This paper proposes a novel ultra wideband (UWB) bandpass filter using multilayer quasi-lumped structure on organic liquid crystal polymer (LCP) substrate. In this study, broadside coupled square patches and high impedance microstrip lines are adopted as quasi-lumped elements for realizing proposed filter.

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