

# Abstracts

## A design of the novel varactor tuned directional coupler

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*Chul-Soo Kim, Chul-Sang Yoon, Jun-Seok Park, Dal Ahn, Jae-Bong Lim and Seung-In Yang. "A design of the novel varactor tuned directional coupler." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1725-1728 vol.4.*

The directional coupler with a parallel LC resonator is proposed to control the operating frequency range. The proposed directional coupler is designed based on even-odd mode analysis technique. It has physically quarter wavelength coupled section at center frequency. A varactor tuned directional coupler is designed and fabricated with a parallel LC resonator. It shows the flexible operating frequency range with 40% tunable. The measured results show good agreement with the simulated characteristics.

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