

عنوان مقاله:

Miniaturized Wideband Branch-Line Hybrid Coupler With Four Pine Shape Capacitive Effect

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در مهندسی برق و علوم کامپیوتر (سال: 1394)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

In this letter a 3dB miniaturized broadband branch-line coupler is designed and experimentally verified. The new distributed capacitors which are placed within the empty space of the hybrid, minimize the size of the coupler. A prototype at 2.5GHz was designed and built. Measurement result confirmed that there is 2700 phase difference between output ports. The size of fabricated modified structure shows 55% reduction with respect to conventional 3dB branch line coupler and also the measured bandwidth is 0.5 GHz

کلمات کلیدی:

Bandwidth, Branch-line hybrid coupler, miniaturized hybrid, size reduction

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