

Abstracts

Multilayer MMIC Branch-Line Hybrid Using Thin Dielectric Layers

S. Banba, T. Hasegawa and H. Ogawa. "Multilayer MMIC Branch-Line Hybrid Using Thin Dielectric Layers." 1991 *Microwave and Guided Wave Letters* 1.11 (Nov. 1991 [MGWL]): 346-347.

A miniature MMIC branch-line hybrid circuit utilizing a multilayer structure composed of thin-film transmission lines is proposed. The branch-line hybrid circuit is designed for a center frequency of 20 GHz and fabricated in a 0.49 mm x 0.53 mm area. A coupling loss of $5.5 \text{ dB} \pm 0.5 \text{ dB}$ over a 3 GHz bandwidth is achieved.

[Return to main document.](#)