

Abstracts

A new 3-dB power divider for millimeter-wavelengths

V. Vassilev, V. Belitsky, D. Urbain and S. Kovtonyuk. "A new 3-dB power divider for millimeter-wavelengths." 2001 Microwave and Wireless Components Letters 11.1 (Jan. 2001 [MWCL]): 30-32.

This paper presents a new type of 3-dB power divider that achieves wideband, low-loss, and symmetric power division. In the paper, we discuss the design considerations and present results of measurements at 10 and 100 GHz. The power divider symmetry is examined as a function of the termination loads mismatch. The simplicity of the presented divider makes it very suitable for application at millimeter and submillimeter bands. The predicted and the measured performance are in very good agreement.

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