

Abstracts

A 65 GHz holographic power combiner

M. Hoft, B. Schumann, R. Judaschke and M. Shahabadi. "A 65 GHz holographic power combiner." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1833-1836 vol.4.

An accurate and efficient method has been developed which is capable of analyzing three-dimensional, biperiodic holographic power combiners for millimeter-wave frequencies. This method has been subsequently applied to the design of a 65 GHz power combiner which, in a first step, consists of a linear array of five IMPATT oscillators. Experimental results indicate that a power combining efficiency of about 85% can be achieved.

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