

Abstracts

A high-efficiency millimeter-wave holographic power splitter/combiner

M. Shahabadi, K. Schunemann and H.-G. Unger. "A high-efficiency millimeter-wave holographic power splitter/combiner." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 573-576.

A millimeter-wave power splitter/combiner working on the principles of holography is presented. A hologram which stores the holographic image of a number of beams has the function of a power splitting element. An input beam to this hologram causes the recorded beams to be reconstructed, which is none but a high-efficiency process of beam splitting. A measured efficiency of 93%, high isolation, and a relatively large bandwidth are demonstrated.

 [Return to main document.](#)