

Broadband analysis of a D-band holographic power combining circuit

M. Hoft, J. Weinzierl and R. Judaschke. "Broadband analysis of a D-band holographic power combining circuit." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1407-1410 vol.2.

Holography is a promising technique for power combining applications in the frequency range of short millimeter and submillimeter waves. In this paper, a quasi-optical holographic power combining circuit is investigated. The hologram is designed for 150 GHz and has an efficiency of 92.5% with a 90% bandwidth of 5.3%. With help of a broadband waveguide power splitter and a vector field measurement system, the circuit is analyzed.

 [Return to main document.](#)