

Abstracts

Demonstration of an Oscillating Quasi-Optical Slab Power Combiner

F. Poegel, S. Irrgang, S. Zeisberg, A. Schuenemann, G.P. Monahan, H. Hwang, M.B. Steer, J.W. Mink, F.K. Schwering, A. Paolletta and J. Harvey. "Demonstration of an Oscillating Quasi-Optical Slab Power Combiner." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 917-920.

Power combining in a hybrid dielectric slab beam waveguide resonator using a MESFET oscillator array is reported for the first time. Four MESFET oscillators lock via quasi-optical modes to produce a signal at 7.4 GHz with a 3 dB linewidth of less than 3 kHz.

 [Return to main document.](#)