

Abstracts

A High Power Two-Dimensional Coupled-Oscillator Array at X-Band

P. Liao and R.A. York. "A High Power Two-Dimensional Coupled-Oscillator Array at X-Band." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 909-912.

The design and construction of a high power X-band quasi-optical power combining array is described. This array extends our previous work to two dimensions using a coupled network of GaAs power MESFET oscillators. Preliminary measurements suggest that a 6 x 6 array produces a total power in excess of 30 Watts, with an effective radiated power (ERP) of greater than 2 kW.

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