

Abstracts

A 1 Watt X-Band Power Combining Array Using Coupled VCOs

P. Liao and R.A. York. "A 1 Watt X-Band Power Combining Array Using Coupled VCOs." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1235-1238.

The design and construction of a ten element power-combining array using coupled voltage controlled oscillators (VCOs) is described. A varactor-tuned patch and broadband coupling network are used in the array. Preliminary measurements indicate an effective radiated power (ERP) of 10.5 W at 8.4 GHz, with beam-scanning capability via voltage tuning of the end elements.

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