Abstracts

Two-Dimensional Quasi-Optical Power Combining System Performance and Component Design

H.-S. Hwang, T.W. Nuteson, M.B. Steer, J.W. Mink, J. Harvey and A. Paolella. "Two-Dimensional Quasi-Optical Power Combining System Performance and Component Design." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 927-930.

In this paper, the design of a 2D quasioptical power combining structure is presented. Convex and concave phase transformers were used in the system comparing their scattering losses. The amplifier array is placed underneath the dielectric slab to reduce insertion loss and can also generate beam scanning by tuning the input signal frequency.

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