

Abstracts

Quasi-Optical Amplifier Array Using Direct Integration of MMICs and 50 Omega Multi-Slot Antennas

H.S. Tsai and R.A. York. "Quasi-Optical Amplifier Array Using Direct Integration of MMICs and 50 Omega Multi-Slot Antennas." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 593-596.

A new 50-Omega planar antenna structure is presented for finite thickness dielectric substrates. Direct integration of these antennas and commercial MMICS amplifier chips is explored for quasi-optical power combining. A prototype 4 x 4 array demonstrated 10dB gain with 4% bandwidth @ 11 GHz with no matching networks.

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