

Abstracts

A transmit-receive spatial amplifier array

S. Ortiz, T. Ivanov and A. Mortazawi. "A transmit-receive spatial amplifier array." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 679-682.

A transmit-receive spatial power combining amplifier array is introduced. The amplifier unit cell utilizes one antenna for both transmit and receive modes. Orthogonal ports of a microstrip patch antenna provide isolation between transmitter and receiver ports. Results from a 3/spl times/3 transmit-receive amplifier array design at 10 GHz are presented. The measured gains for transmit and receive modes were 8.2 and 6.9 dB, respectively.

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