

Abstracts

A K_{sub} a-Band MMIC Array Feed Transmitter for Deep Space Applications

A.L. Riley, D.L. Rascoe, T. Cooley, L. Duffy, V. Jamnejad and R. Thomas. "A K_{sub} a-Band MMIC Array Feed Transmitter for Deep Space Applications." 1991 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 91.1 (1991 [MCS]): 11-14.

A K-band solid state transmitter capable of power greater than 5 W is being developed. The transmitter consists of an array of 21 elements each driven by a single stage MMIC power amplifier three stage MMIC preamplifier and four bit phase MMIC phase shifter. The design of the array and measurements of the antenna pattern of the full array and an electronically beam steered sub-array are reported.

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