

# Abstracts

## K<sub>sub a</sub>-Band MMIC Beam Steered Transmitter Array

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A.L. Riley, D. Rascoe, V. Lubecke, J. Huang and L. Duffy. "K<sub>sub a</sub>-Band MMIC Beam Steered Transmitter Array." 1989 *Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest* 89.1 (1989 [MCS]): 65-68.

A 32 GHz six element linear transmitter array utilizing state-of-the-art MMIC phase shifters and power amplifiers has been developed and tested as part of the development of a spacecraft array feed for NASA deep space communications applications. Measurements of the performance of a number of MMIC phase shifter and power amplifier was carried out and electronic beam steering was demonstrated.

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