

Abstracts

Ka-Band MMIC Beam-Steered Transmitter Array (Short Papers)

D.L. Rascoe, A.L. Riley, J. Huang, V. Lubecke and L. Duffy. "Ka-Band MMIC Beam-Steered Transmitter Array (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.12 (Dec. 1989 [T-MTT] (1989 Symposium Issue)): 2165-2168.

A 32 GHz six-element linear transmitter array utilizing MMIC phase shifters and power amplifiers has been designed and tested as part of the development of a spacecraft array feed for NASA deep-space communications applications. Measurements of the performance of individual phase shifters, power amplifiers, and microstrip radiators were carried out and electronic beam steering of the linear array was demonstrated.

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