

Abstracts

A compact 5-bit phase shifter MMIC for K-band satellite communication systems

C.F. Campbell and S.A. Brown. "A compact 5-bit phase shifter MMIC for K-band satellite communication systems." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 217-220.

The design and performance of a compact, K-band, 5-bit phase shifter MMIC is presented. Extensive EM simulation and compact circuit design techniques were employed to yield an MMIC with a 1.693 mm/spl times/0.750 mm (1.27 mm/sup 2/) die size. Measured performance of the phase shifter at 19 GHz demonstrates 5 dB/spl plusmn/0.6 dB insertion loss and 3/spl deg/ RMS phase error.

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