

Abstracts

C-Band 6-Bit GaAs Monolithic Phase Shifter (1985 [MCS])

C. Andricos, I. Bahl and E. Griffin. "C-Band 6-Bit GaAs Monolithic Phase Shifter (1985 [MCS])." 1985 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 85.1 (1985 [MCS]): 8-9.

The design, fabrication and test result of a GaAs monolithic 6-bit digital controlled phase shifter for use in the 5 to 6 GHz region are described. The chip includes an analog control bit, (0-11°) for phase correction in a closed loop configuration. Less than ± 1 -degree phase error was achieved on the 11.25°-, 22.5°- and 45°-bits, with ± 6 -degrees on the 90-degree and 180-degree bits. Over 5 to 6 GHz the return loss was > 15 dB and flatness ± 1 dB.

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