Abstracts

A Low Loss Monolithic Five-Bit PIN Diode Phase Shifter

R. Coats, J. Klein, S.D. Pritchett and D. Zimmermann. "A Low Loss Monolithic Five-Bit PIN Diode Phase Shifter." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 915-918.

A new monolithic five-bit phase shifter topology made realizable by the use of PIN diode switching elements has demonstrated lower insertion loss than that available from more conventional configurations. The novel phase shifter features predicted insertion loss <3.0 dB and VSWR <1.6:1 over the 20 percent frequency band in the X-band region. Monolithic chips have been fabricated and evaluated. The experimental results presented indicate that these performance goals are achievable.

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