

Abstracts

A High-Speed Phase Shifter Based on Optical Injection

L.R. Brothers, Jr. and C.H. Cox, III. "A High-Speed Phase Shifter Based on Optical Injection." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 819-822.

An optoelectronic analog phase shifter has been developed exhibiting 190 degrees of phase shift, with no need for external bias. This is five times greater phase shift than previously reported for optoelectronic devices. The device characteristics are described and design considerations given. Performance data are presented demonstrating the high-speed modulation and wide-phase excursion capabilities.

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