

Abstracts

New Design of X-Band GaAs MMIC Phase Shifter Using Improved Equivalent Circuit Model

H. Takasu, S. Watanabe, M. Maeda, M. Miyauchi, S. Kamihashi and M. Ohtomo. "New Design of X-Band GaAs MMIC Phase Shifter Using Improved Equivalent Circuit Model." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1413-1416.

An improved yet simple equivalent circuit of a GaAs FET switch is proposed that takes parasitic distributed-line effects of the FET into account. X-band five-bit GaAs MMIC phase shifters designed using the model show a good agreement between the design and the measurement.

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