

## Optically Controlled Microwave Switching and Phase Shifting Using GaAs FET's

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*S.J. Rossek and C.E. Free. "Optically Controlled Microwave Switching and Phase Shifting Using GaAs FET's." 1995 Microwave and Guided Wave Letters 5.3 (Mar. 1995 [MGWL]): 81-83.*

Theoretical and experimental results relating to a novel method for achieving direct optical control of a microwave phase shifter are presented, based upon a microwave reflective switch in which on- and off-states are controlled by direct optical illumination of a GaAs FET. Results, hitherto unavailable in the literature, verify previously published models for the GaAs FET as a microwave switch while under electrical control and establish the use of this model to predict the response of the switch under direct optical control over the frequency range 8 to 12 GHz.

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