Abstracts

Performance of Optically Coupled Microwave Switching Devices

R.A. Kiehl and D.M. Drury. "Performance of Optically Coupled Microwave Switching Devices." 1981 Transactions on Microwave Theory and Techniques 29.10 (Oct. 1981 [T-MTT]): 1004-1010.

The performance of optically coupled microwave switching devices for pulse generation or other applications is detailed. The bias dependence of the RF power transfer is presented for a range of operating frequencies, thereby establishing the bias conditions required for a given ON/OFF ratio and insertion loss. Limits on peak RF power level and pulse repetition rate, as well as limitations arising from harmonic distortion and shot noise, are also examined.

❑ Return to main document.