

Abstracts

Microwave Switching with Low-Pressure Arc Discharge

R.M. Hill and S.K. Ichiki. "Microwave Switching with Low-Pressure Arc Discharge." 1960 Transactions on Microwave Theory and Techniques 8.6 (Nov. 1960 [T-MTT]): 628-633.

The characteristics of a low-pressure, hot cathode arc discharge have been studied and applied to microwave switching applications. The combination of rapid plasma build-up, low ignition voltage, and fairly rapid plasma decay, offers promise for the development of broad-band, high-power microwave switches which can be closed in tenths of microseconds and opened in a few microseconds or less. Experimental results on some particular switches are reported.

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