

Abstracts

A Short-Slot Waveguide Latching Ferrite Switch (Dec. 1970 [T-MTT])

S. Nakahara and H. Kurebayashi. "A Short-Slot Waveguide Latching Ferrite Switch (Dec. 1970 [T-MTT])." 1970 Transactions on Microwave Theory and Techniques 18.12 (Dec. 1970 [T-MTT] (1970 Symposium Issue)): 1048-1051.

A new type of latching switch, which consists of a short-slot waveguide junction loaded with a latched ferrite at the coupling section, is presented. The behavior of this switch is explained by application of the concept of a short-slot waveguide directional coupler. In order to estimate isolation characteristics, the phase constants of the two modes in the coupling section loaded with ferrite toroid are calculated. Practical construction based upon the calculated results has been carried out, and a switch with 8-percent bandwidth has been obtained.

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