

Abstracts

On the improvement of the performance of the optically controlled microwave switch

D.A.M. Khalil and A.M.E. Safwat. "On the improvement of the performance of the optically controlled microwave switch." 1997 Transactions on Microwave Theory and Techniques 45.8 (Aug. 1997, Part II [T-MTT]): 1358-1361.

In this paper, a new design for the gap used as an optically controlled microwave switch is proposed. This new design is based on the use of a rib structure in the gap region. The proposed structure is studied using the finite-difference method (PDM). Obtained results show that for small gap lengths, the structure figure of merit, defined as the product of the ON/OFF ratio and the bandwidth, can be improved by about 38 dB*GHz.

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