

Leaky Wave Behaviour in the Silicon H-Guide with Optically Induced Plasma Region

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The propagation properties of leaky millimeter waves in the silicon H-guide containing optically induced plasma region have been investigated at Q band including NRD-guide behaviour. The possible optical control devices, such as switching devices from guided to leaky waves, have been examined by utilizing the transition characteristics from guided waves into leaky waves due to optical illumination.

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