Abstracts

Slow-Wave Coplanar Waveguide on Periodically Doped Semiconductor Substrate (1983 [MWSYM])

Y. Fukuoka and T. Itoh. "Slow-Wave Coplanar Waveguide on Periodically Doped Semiconductor Substrate (1983 [MWSYM])." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 399-401.

A metal-insulator-semiconductor (MIS) coplanar waveguide with periodically doped substrate is described. Reduction of attenuation and enhancement of the slow-wave factor are observed, compared to the uniform MIS coplanar waveguide. The structure is experimentally simulated and shows good agreement with theory.

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