

Abstracts

Slot Line - An Alternative Transmission Medium for Integrated Circuits

S.B. Cohn. "Slot Line - An Alternative Transmission Medium for Integrated Circuits." 1968 G-MTT International Microwave Symposium Digest and Technical Program 68.1 (1968 [MWSYM]): 104-109.

Current development of microwave integrated circuits has revived interest in microstrip transmission line as a means of interconnecting solid-state elements into signal-processing subsystem. This paper describes an alternative kind of transmission line on a dielectric substrate that may be used with or instead of microstrip. As shown in Fig. 1, this alternative consists of a narrow slot or gap in a conductive coating on one side of the substrate. The other side of the substrate is exposed directly to air.

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