

Abstracts

Slot Line Filters

E. Mariani and J.P. Agrios. "Slot Line Filters." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 190-195.

The slot transmission line on high dielectric constant substrates provides a microwave medium for fabricating microwave filters that could have application to integrated circuits. Specifically, configurations which yield band-pass and band-stop filter characteristics are being investigated; coupling data has been obtained and several experimental filters have been constructed. The investigation was performed at frequencies near 3 GHz using circuits fabricated primarily on 0.063 inch thick, Trans Tech D-16, substrate material. The substrates were metallized using either aluminum sensing tape (3M No. 51) or using a combination of electroless and electroplating in order to deposit copper to a thickness of approximately 0.001 inch.

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