

Abstracts

Coupled-Strip-Transmission-Line Filters and Directional Couplers

E.M.T. Jones and J.T. Bolljahn. "Coupled-Strip-Transmission-Line Filters and Directional Couplers." 1956 Transactions on Microwave Theory and Techniques 4.2 (Apr. 1956 [T-MTT]): 75-81.

This paper describes the theory of operation of coupled strip line filters and directional couplers, and presents information from which these components may be easily designed. Low-pass, band-pass, all-pass, and all-stop filter characteristics are obtained from these coupled lines either by placing open or short circuits at two of the four available terminal pairs, or by interconnecting two of the terminal pairs. Directional couplers having perfect directivity and constant input impedance at all frequencies, and for all degrees of coupling, are obtained by placing equal resistive loads at each of the four terminal pairs.

[Return to main document.](#)