

Abstracts

Theoretical Design of Symmetrical Junction Stripline Circulators

J.B. Davies and P. Cohen. "Theoretical Design of Symmetrical Junction Stripline Circulators." 1963 Transactions on Microwave Theory and Techniques 11.6 (Nov. 1963 [T-MTT]): 506-512.

The results of detailed calculations based on Bosma's theory of 3-port stripline circulators are presented. The analysis has been modified to enable the scattering matrix, and therefore the circulator bandwidth, to be found. The equations of the 4-port junction have been derived and an expression for the scattering matrix of the general m -port junction is given. A comparison of experimental and theoretical results for the 3-port junction shows good agreement for circulators designed in the frequency band 2-3 Gc.

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