

Abstracts

An Analysis of Broadband Circulators with External Tuning Elements

L.K. Anderson. "An Analysis of Broadband Circulators with External Tuning Elements." 1967 Transactions on Microwave Theory and Techniques 15.1 (Jan. 1967 [T-MTT]): 42-47.

Equations are presented which show how the isolation-bandwidth characteristic of a given Y-circulator junction can be modified by external tuning elements. Results are given for tuning with one, two and, as a limiting case, an infinite number of resonant elements. The results suggest that there is only limited room for improvement in the best of the current state-of-the-art empirically designed circulators.

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