

# Abstracts

## An Analysis of Broadband Circulators with External Tuning Elements

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*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.

[Return to main document.](#)