# Abstracts

## MIC Directional Filters Using Dielectric Resonators

*M.L. Majewski and N.A. McDonald. "MIC Directional Filters Using Dielectric Resonators." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 416-418.*

Three novel, simple realizations of Microwave Integrated Circuit (MIC) directional filters using cylindrical dielectric resonators are described. These are a filter employing two three-port circulators for separation of the band-pass (B-P) and band-rejection (B-R) ports, a traveling wave filter employing two 3-dB hybrids separating the B-P and B-R ports, and a filter consisting of two rnicrostrip lines with a dielectric resonator (d.r.) suspended between them. Approximate methods of calculating the filters resonant frequency and the coupling of the dielectric resonator to the microstripline are also given.

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