

# Abstracts

## New Types of MMIC Circulators (1995 [MCS])

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*D. Kother, B. Hopf, T. Sporkmann, I. Wolff and S. Kossowski. "New Types of MMIC Circulators (1995 [MCS])." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 229-232.*

Circulators can be used to separate transmit/ receive (T/R) signals and for two-port tuners. Conventional ferrite devices are not applicable for MMICs. Two new types of electronical circulators are presented in this paper covering the frequency range from 1.8GHz up to 80GHz.

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