

# Abstracts

## The Design of Planar Circulators for Wide-Band Operation

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*T. Miyoshi and S. Miyauchi. "The Design of Planar Circulators for Wide-Band Operation." 1980 Transactions on Microwave Theory and Techniques 28.3 (Mar. 1980 [T-MTT]): 210-214.*

The stripline circulator used in microwave integrated circuits (MIC) is considered one of ferrite planar circuits (two-dimensional circuits). We investigated the optimum shape of a planar circulator for wide-band operation, perceiving the wider freedom of the planar structure in circuit design. The wide-band planar circulator, designed using the powerful contour-integral method is triangular shaped with slightly concave sides. The 20-dB isolation fractional bandwidth of the designed circulator is about 52 percent.

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