

Abstracts

A New Form of Ferrite Device for Millimeter-Wave Integrated Circuits (Short Papers)

V.P. Nanda. "A New Form of Ferrite Device for Millimeter-Wave Integrated Circuits (Short Papers)." 1976 *Transactions on Microwave Theory and Techniques* 24.11 (Nov. 1976 [T-MTT] (Special Issue on Millimeter Waves: Circuits, Components, and Systems)): 876-879.

A new form for ferrite devices has been developed which finds extensive applications in the integrated circuits from Ku band to millimeter wavelengths. The new configuration is compatible with the emerging technology of millimeter-wave image line integrated circuits (MILIC's) which use dielectric image line as the guiding structure. Development of a MILIC isolator is discussed in detail to spotlight the salient points of the new approach. The design approach permits flexibility in layout and mechanical dimensions, and it results in low fabrication costs for MILIC ferrite devices at component and subsystem levels.

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