

Diplexer and Broadbanding Operations of Stripline Y-Junction Circulators

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Diplexer and broadbanding operations of stripline Y-junction circulators are reported. The former is realized, involving a combination of positive-sense and negative-sense circulations, in the Y-junction loaded with conductor-ferrite composites. The latter is performed with conductor-dielectric-ferrite composites. The frequency band, changeable with a biasing magnetic field, reached 45 percent in the experiment when four circulations were put into use. These operations are treated only above resonance.

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