

Criteria for Designing High-Power Coupled Wave Duplexers and Isolators

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This paper presents criteria for designing nonreciprocal coupled-wave devices which may be used as isolators, circulators and duplexers. An experimental model of such a device was designed and tested over a 6 per cent frequency band centered at 35 kMc, and the obtained data are in good agreement with the theory. Such devices should have numerous applications as they offer the capability of operating under extremely high power levels, and are not restricted to dominant mode operation.

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