

Abstracts

Experimental 4-Port E-Plane Junction Circulators (Correspondence)

S.R. Longley. "Experimental 4-Port E-Plane Junction Circulators (Correspondence)." 1967 *Transactions on Microwave Theory and Techniques* 15.6 (Jun. 1967 [T-MTT]): 378-380.

This correspondence reports on the experimental investigation of broadbanding 4-port E-plane cross-junction circulators. The circulator experiments were carried out in X-band (WG 16). From previous work on 3-port E-plane circulators it was decided to adopt a ferrite configuration using two flat disks positioned against the narrow walls at the intersection of the crossed waveguides as shown in Fig. 1. The ferrite disks are magnetized by a dc magnetic field parallel to the ferrite axis.

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