Abstracts

Circular-Electric Mode Waveguide Couplers and Junctions for Use in Gyrotron Traveling-Wave Amplifiers (Dec. 1980 [T-MTT])

L.R. Barnett, J.M. Baird, A.W. Fliflet and V.L. Granatstein. "Circular-Electric Mode Waveguide Couplers and Junctions for Use in Gyrotron Traveling-Wave Amplifiers (Dec. 1980 [T-MTT])." 1980 Transactions on Microwave Theory and Techniques 28.12 (Dec. 1980 [T-MTT] (1980 Symposium Issue)): 1477-1481.

Recent gyotron traveling-wave amplifier experiments in the TE° /sub 01/ mode have led to the developing of 2-port and 4-port devices potentially useful as input couplers, severs, and beam-RF separators for colletor designs.The couplers are moderately wide-band, have high transmission efficiencies and low reflection coefficients. In addition, they are relatively easy to construct. We present analytical and experimental results.

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