

Abstracts

Techniques for Increasing the Bandwidth of a TM/sub 010/-Mode Power Combiner

R. Aston. "Techniques for Increasing the Bandwidth of a TM/sub 010/-Mode Power Combiner." 1979 Transactions on Microwave Theory and Techniques 27.5 (May 1979 [T-MTT] (Special Issue on Solid-State Microwave/Millimeter-Wave Power Generation, Amplification, and Control)): 479-482.

A computer analysis of the TM/sub 010/-mode power combiner for N diodes is described which identifies circuit parameters that increase the bandwidth of the power combiner. These parameters reduce the external Q and provide unique techniques for increasing the bandwidth of injection-locked power combiners. Comparisons with external Q measurements give experimental verification of the analysis.

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