

## Bandwidth Properties of Rectangular T-Septum Waveguides (Short Papers)

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*F.J. German and L.S. Riggs. "Bandwidth Properties of Rectangular T-Septum Waveguides (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.5 (May 1989 [T-MTT]): 917-919.*

The transmission line modeling (TLM) method is applied to rectangular T-septum waveguides for the determination of the separation between the hybrid TE/sub 10/ and hybrid TE/sub 20/ modes. While previous analyses have predicted a wider bandwidth for this class of waveguiding structure than is available with conventional ridged waveguide, they have not been in agreement on the exact bandwidth properties. This discrepancy is resolved, and the apparent cause of error in previously published results is pointed out.

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