

# Abstracts

## **Broad-Band Waveguide Series T for Switching**

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*J.W.E. Griemsmann and G.S. Kasai. "Broad-Band Waveguide Series T for Switching." 1956  
Transactions on Microwave Theory and Techniques 4.4 (Oct. 1956 [T-MTT]): 252-255.*

By use of properly proportioned half-wavelength transformer-sections in the arms of a waveguide series T broad-band performance can be obtained for switching applications. Over the frequency band 8200 to 9765 megacycles per second, corresponding to a bandwidth of 17.4 per cent, an experimental model showed an insertion vswr of less than 1.15 for transmission through the aligned arms and 1.30 for transmission around the bend. Further bandwidth improvement is possible with the use of a special arrangement of quarter-wave transformer sections but at the expense of further impairment of power-carrying capacity.

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