Abstracts

Microwave Ferrite Toroidal Phase Shifter in Grooved Waveguide with Reduced Sizes (Short Papers)

Y. Xu. "Microwave Ferrite Toroidal Phase Shifter in Grooved Waveguide with Reduced Sizes (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.6 (Jun. 1988 [T-MTT]): 1095-1097.

In this paper, ferrite toroidal phase shifters in grooved waveguide with reduced sizes are studied both theoretically and experimentally. The influences of the parameters of this model on the performance of the phase shifter are calculated and discussed. Theoretical analysis shows that, with proper choice of the dimensions of the waveguide and the toroid, the phase shifter may be made very broad band and the loss of the phase shifter may be reduced by 16 percent in relation to the case of the rectangular waveguides. Experimental results are in good agreement with theoretical.

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