Abstracts

Slot Line Application to Miniature Ferrite Devices

G.H. Robinson and J.L. Allen. "Slot Line Application to Miniature Ferrite Devices." 1969 Transactions on Microwave Theory and Techniques 17.12 (Dec. 1969 [T-MTT]): 1097-1101.

This paper presents preliminary results and conclusions of experimental investigation of the potential usefulness of slot transmission line. Measurement of phase constant, insertion loss, and other general characteristics are presented and compared with theoretical predictions. Transitions from slot to coax and slot to microstrip are described.One of the more interesting characteristics of slot line, the existence of an elliptically polarized H field, is applied in planar ferrite phase shifter design. Experimental data are presented including preliminary latched phase shift results.

❑ Return to main document.