

Abstracts

The Effect of Surface Metal Adhesive on Slot-Line Wavelength (Short Papers)

J.B. Knorr and J. Saenz. "The Effect of Surface Metal Adhesive on Slot-Line Wavelength (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.10 (Oct. 1973 [T-MTT]): 642-644.

An investigation of the dependence of slot-line wavelength upon a thin layer of adhesive between metal and substrate is described. It is shown that the presence of adhesive will cause an increase in wavelength when the dielectric constant of the adhesive is less than that of the substrate. Experimental results are presented which show this dependence for a variety of surfaces and adhesives. A perturbation expression is given which permits correction of experimental data for comparison with theory when this effect occurs.

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