

Data for Partially Decoupled Round Rods Between Parallel Ground Planes (Correspondence)

E.G. Cristal. "Data for Partially Decoupled Round Rods Between Parallel Ground Planes (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.5 (May 1968 [T-MTT]): 311-314.

This correspondence presents new design data (Figs. 2 through 9) supplementary to those previously published for coupled round rods between parallel ground planes, which are anticipated to be useful in the design of UHF and TEM microwave components. The configuration of interest, shown in Fig. 1, shows that for the data herein the transmission lines are partially decoupled from each other by means of infinitesimally thin partitions between lines. The effect of the partitions forces the spacing between lines to be reduced for a given coupling and transmission-line radius, thereby providing a more compact structure.

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