

Theoretical Comparison of Six-Port Reflectometer Junction Designs

E.J. Griffin and T.E. Hodgetts. "Theoretical Comparison of Six-Port Reflectometer Junction Designs." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 575-577.

This paper derives numerical procedures for comparing different theoretical designs of six-port junctions for measuring the voltage reflection coefficient Γ of passive loads ($|\Gamma| \leq 1$). It shows that the maximum uncertainty of measuring any $|\Gamma| \leq 1$ can be minimised, by a suitable choice of components, for each of three published designs.

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