

Abstracts

Symmetrical N-Port Waveguide Junction Loaded with Dielectric Sleeve and Metallic Post

S.P. Yeo, L. Qiao and M. Cheng. "Symmetrical N-Port Waveguide Junction Loaded with Dielectric Sleeve and Metallic Post." 1995 *Transactions on Microwave Theory and Techniques* 43.6 (Jun. 1995 [T-MTT]): 1298-1302.

The present paper describes the development of a computer model that is able to predict the characteristics of the symmetrical N-port waveguide junction, which has a dielectric sleeve and metallic post inserted concentrically into its central cavity. Computational and experimental test results demonstrate that the resultant software package (which is compact enough to be run on an IBM 486 PC) can yield accuracies of $\pm 0.5\%$ for the scattering parameters of the junction.

[Return to main document.](#)