

Abstracts

Analysis and Design of Five Port Circular Disc Structures for Six-Port Analyzers

M. Abouzahra and K.C. Gupta. "Analysis and Design of Five Port Circular Disc Structures for Six-Port Analyzers." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 449-452.

This paper presents a method for designing a five-port disc microstrip circuit suitable for the six-port network analyzers. The method is based on the planar circuit approach in which the two-dimensional Green's function of a circular segment is used. It is found that a bandwidth of about 44% can be obtained (for $|S_{11}|$ less than 0.2).

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