

Abstracts

Rectangular Disk 3 dB Hybrids

I. Ohta, H. Kinoshita, T. Kaneko and K. Fujiwara. "Rectangular Disk 3 dB Hybrids." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 235-238.

Four novel types of rectangular disk 3 dB hybrids have been obtained through the constituting principle on the basis of field distribution of two dipole modes, (1,0) and (0,1) modes. Their hybrid properties, however, actually are spoilt by the impairing influence of the higher order modes with increasing of center frequency. Therefore, some methods of improvement on them to a practicable level also have been described. Experimental results verify the improvement methodology.

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