

Abstracts

Experimental Investigation on NRD-Guide Dual-Mode Filters

C. Di Nallo, F. Frezza, A. Galli, G. Gerosa, M. Guglielmi and P. Lamariello. "Experimental Investigation on NRD-Guide Dual-Mode Filters." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 237-240.

New interesting possibilities of implementation of high-performance dual-mode filters are analyzed by considering the non-radiative dielectric (NRD) waveguide components. The excitation and coupling of dual modes are investigated for NRD circular- and square-section dielectric resonators, and the influence of different perturbation techniques, such as tuning screws or cuts, is discussed. Various promising topologies of NRD-guide dual-mode filters are then suggested and tested to implement both classical and elliptic configurations.

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