Abstracts

Influence of Conductor Shields on the Q-Factors of a Te/sub 0/ Dielectric Resonator

Y. Kobayashi, T. Aoki and Y. Kabe. "Influence of Conductor Shields on the Q-Factors of a Te/sub 0/ Dielectric Resonator." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 281-284.

Based on the mode-matching method useful for computing the accurate resonant frequencies, two approaches due to the complex frequency and to the perturbation theory are described to accurately compute Q-factors of TE/sub 0/ dielectric rod resonators placed between two parallel conductor plates and in a conductor cavity. Influence of the conductor shields on the Q-factors is discussed from the computed results.

❑ Return to main document.