

Abstracts

Loss Mechanisms in Dielectric Loaded Resonators (1985 [MWSYM])

K.A. Zaki and C. Chen. "Loss Mechanisms in Dielectric Loaded Resonators (1985 [MWSYM])." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 465-468.

Analysis is presented of resonators consisting of a section of a dielectric loaded waveguide shorted at both ends. The analysis includes resonant frequency calculation, mode charts and unloaded Q computation. Numerical results are presented for the unloaded Q's of various modes, as a function of the resonator parameters. Effects of losses in different parts of the resonator wall on the unloaded Q are discussed, and methods of improving these Q's are explored.

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