

Abstracts

Dielectric combline resonators and filters (1998 Vol. III [MWSYM])

C. Wang, K.A. Zaki, A.E. Atia and T. Dolan. "Dielectric combline resonators and filters (1998 Vol. III [MWSYM])." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1315-1318.

By replacing the inner conductor of the conventional combline resonator with a high ϵ_r dielectric rod, higher unloaded Q of the resonator can be expected. Resonant frequency, unloaded Q and coupling coefficient of the resonator are obtained by rigorous mode matching method. An 8-pole elliptic function dielectric combline resonator filter is designed. Good frequency responses are obtained.

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