Abstracts

Dielectric Resonators as Microstrip Circuit Elements

W.R. Day, Jr.. "Dielectric Resonators as Microstrip Circuit Elements." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 24-28.

Dielectric resonators may be used as hybrid circuit elements in microstrip transmission line circuits. These resonators may function as bandpass filters, bandstop filters, passive stabilization cavities for solid-state diode oscillators, or as reference cavities for Pound discriminators. Dielectric resonators are small size and high Q which makes them desirable for microstrip circuits where deposited resonators are large at lower microwave frequencies and have limited Q's. The purpose of this paper is to present a simple design procedure for cylindrical TiO/sub 2/ resonators on microstrip and to illustrate the use of such a resonator in a practical Pound discriminator circuit.

❑ Return to main document.