Abstracts

Hybrid Mode Coupling of Dielectric Resonators to Microstrip Lines

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Coupling between hybrid modes in dielectric resonators and microstrip lines is analyzed. This coupling is due to both magnetic and electric fields. These two kinds of coupling can be treated separately. Two degenerate hybrid modes with the same resonant frequency are excited by magnetic coupling and electric coupling, respectively. Computed data shows dependence of the external Q on the distance between the resonator and the line. Experimental measurements are compared with the computed data, showing very good agreement.

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