

Abstracts

Damping of the Resonant Modes of a Rectangular Metal Package (Short Papers)

D.F. Williams. "Damping of the Resonant Modes of a Rectangular Metal Package (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.1 (Jan. 1989 [T-MTT]): 253-256.

When an electrical circuit is enclosed in a metal package huge enough to support resonant modes within the frequencies of operation of the enclosed circuit, coupling between the circuit and these resonant cavity modes may disturb circuit operation. These resonant cavity modes can be effectively damped by placing a dielectric substrate coated with a resistive film in the cavity. In this paper a numerical algorithm is used to find the frequencies and quality factors of the lowest order resonant mode of a cavity damped in this manner.

 [Return to main document.](#)