Abstracts

Experimental and Theoretical Study of Parasitic Leakage/Resonance in a K/Ka-Band MMIC Package (1996 Vol. I [MWSYM])

J.-G. Yook, L.P.B. Katehi, R.N. Simons and K. Shalkhauser. "Experimental and Theoretical Study of Parasitic Leakage/Resonance in a K/Ka-Band MMIC Package (1996 Vol. I [MWSYM])." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 223-226.

In this paper, electromagnetic leakage and spurious resonances in a K/Ka-band (18 - 40 GHz) MMIC hermetic package designed for a phase shifter chip are studied using the finite element method (FEM) and the numerical simulation results are compared with measured data. Both in measured and calculated data several spurious resonances are observed in the 18 to 24 GHz region and the origin of this phenomenon is identified by virtue of the modeling capability of the FEM.

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