

Abstracts

Electromagnetic Radiation from Printed Traces on a Circuit Board with Coated Plastic Cover

J.-F. Rieng. "Electromagnetic Radiation from Printed Traces on a Circuit Board with Coated Plastic Cover." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 697-700.

A rigorous formulation in the spectral domain is used to investigate the radiation from printed traces on a circuit board in the frequency range from 30 MHz to 1 GHz. Both the coupling effect among adjacent traces and the shielding effectiveness of metallic coating on the plastic cover are analyzed. It is found that the radiation around resonant frequencies is critical to satisfy the FCC requirement, and an appropriate coating can resolve the problem.

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