

Abstracts

The AC Resistance of a Microstripline and its Ground Plane

R. Faraji-Dana and Y.L. Chow. "The AC Resistance of a Microstripline and its Ground Plane." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 325-327.

It is found that the RF resistance of a microstripline is substantially higher than the theoretical value from the skin effect of the strip alone. Based on rigorous analyses, this paper finds that the extra resistance is caused mainly by (i) The concentration of grounded plane current under a wide microstrip, and (ii) the concentration of the strip current towards the ground.

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