

Abstracts

Inductance formula of a square spiral inductor on grounded substrate by duality and synthetic asymptote

W.C. Tang and Y.L. Chow. "Inductance formula of a square spiral inductor on grounded substrate by duality and synthetic asymptote." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 2069-2072 vol.3.

This paper gives a simple CAD formula for inductance of square spiral inductor with grounded substrate, by duality and synthetic asymptote. The average error of the formula is less than 2%. The formula also gives good physical insights to the layout design of the inductor spiral.

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