

New transmission line structure with suppressed eddy current effects

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A new transmission line structure is presented which features suppression of eddy currents and skin-effect. This results in lower loss and lower frequency dependence of line parameters. Transmission lines were fabricated in a standard digital CMOS process with 3 metal layers and low resistance substrate. Measurements were performed and the successful reduction of eddy currents in the metal conductors could clearly be identified.

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