

Abstracts

Magnetic RF integrated thin-film inductors

M. Yamaguchi, M. Baba, K. Suezawa, T. Moizumi, K.I. Arai, Y. Shimada, A. Haga, S. Tanabe and K. Ito. "Magnetic RF integrated thin-film inductors." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 205-208.

The magnetic thin film inductor with a 4-turn, $337/\text{spl} \times 337/\text{spl} \mu\text{m}/\text{sup } 2/$ size spiral coil showed inductance 21% larger than the air core's while its quality factor was lower than the air core's. Keeping the similar quality factor as the air core, the micro patterned magnetic film inductor showed 11% inductance enhancement. The proposed inductor can be made on the passivation of integrated semiconductor devices.

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