

Abstracts

Two-port type ferromagnetic RF integrated inductor

M. Yarnaguchi, T. Kuribara and K.-I. Arai. "Two-port type ferromagnetic RF integrated inductor." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. 1 [MWSYM]): 197-200 vol.1.

Two-port type rf integrated inductor with on-top magnetic layer was fabricated. Equivalent circuit analysis of the ferromagnetic RF integrated inductor was performed for the first time. Structure of the possible equivalent circuit is proposed. Parasitic capacitance of the ferromagnetic film is negligibly small if the film is applied slits. Ferromagnetic Co/sub 85/Nb/sub 12/Zr/sub 3/ film with slits effectively enhanced the inductance up to 5 GHz.

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