

Abstracts

Dielectric Ring-Gap Resonator for Application in MMIC's (1991 Vol. II [MWSYM])

W.K. Hui and I. Wolff. "Dielectric Ring-Gap Resonator for Application in MMIC's (1991 Vol. II [MWSYM])." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 735-738.

A new dielectric resonator -- the dielectric ring-gap resonator -- is introduced and analysed. The resonant frequency and unloaded Q factor of the fundamental quasi-TE₀₁₁ mode have been calculated by a numerical field analysis and an appropriate equivalent circuit. The calculated resonant frequencies show an accuracy of <1% compared with the experimental results.

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