

Abstracts

A micromachined tunable CPW resonator

T. Ketterl, T. Weller and D. Fries. "A micromachined tunable CPW resonator." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 345-348 vol. 1.

This paper presents a novel tunable microwave resonator, consisting of a CPW spiral inductor with a cantilever interconnect structure. Tuning was achieved by applying a DC bias between the input and output of the resonator circuit. An observable resonance tuning between 3 and 7 GHz was accomplished by applying a bias from 0 to 40 V. Corresponding Q-factors between 17 and 20 were obtained in this tuning range.

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