

Abstracts

A Coplanar Millimeterwave Resonator on Silicon

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A CPW resonator in completely coplanar technique is built on grounded silicon substrate and the input impedance is investigated experimentally and numerically. The passive planar structure is extensively studied using a space-domain full-wave analysis method. The resonator is fed by a coplanar transission line through a capacitive gap and shows a marked resonance at the fundamental coplanar waveguide mode. Calculated data and measured data agree better than 5%.

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