

Design of inductors in organic substrates for 1-3 GHz wireless applications

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High Q inductors with maximum quality factors in the range of 180-60 have been obtained at frequencies in the 1-3 GHz band for inductances in the range of 1 nH to 20 nH using a low-temperature organic laminate build-up process. This is the first time such high Q inductors have been demonstrated in this technology. The different inductor designs, optimization schemes, and trade-offs between different topologies, have been discussed in this paper.

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