

# Abstracts

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

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S. Dalmia, F. Ayazi, M. Swaminathan, Sung Hwan Min, Seock Hee Lee, Woopoung Kim, Dongsu Kim, S. Bhattacharya, V. Sundaram, G. White and R. Tummala. "Design of inductors in organic substrates for 1-3 GHz wireless applications." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1405-1408 vol.3.

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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