

Abstracts

MEMS high Q microwave inductors using solder surface tension self-assembly

G.W. Dahlmann, E.M. Yeatman, P.R. Young, I.D. Robertson and S. Lucyszyn. "MEMS high Q microwave inductors using solder surface tension self-assembly." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 329-332 vol. 1.

We present microwave inductors of 1.5 to 2.5 nH fabricated out-of-plane by a self-assembly process. The consequent de-coupling from the substrate allows improved Q (from 4 to 20) and frequency of maximum Q (from 0.5 GHz to 3 GHz) on low resistivity silicon substrates.

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