

# Abstracts

## An L-band, LTCC frequency doubler using embedded lumped element filters

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*R. Hurley and G. Sloan. "An L-band, LTCC frequency doubler using embedded lumped element filters." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1549-1552 vol.3.*

We have demonstrated an L-band frequency doubler (1.5 GHz, 33% BW) using an LTCC (low temperature co-fired ceramic) substrate. Lumped element filters were embedded in an LTCC carrier, providing greater than 10:1 footprint reduction over a previous single-layer hybrid implementation.

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