

# Abstracts

## A Novel MMIC Filter - Measured and Simulated Data

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*F. Mernyei, I. Aoki and H. Matsuura. "A Novel MMIC Filter - Measured and Simulated Data." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 387-390.*

We introduced new MMIC band-pass filters with Triple Coupled CPW (TCC) lines. We realized 7th order filters at 17GHz center frequency with 10GHz pass-bands. The pass-band insertion loss is about 5 dB. The size of the smallest filter layout is  $0.3\lambda_{\text{sub } g} \times 0.4\lambda_{\text{sub } g}$ , the smallest passive uniplanar filters reported as we know. The measured characteristics agreed well with the design.

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