

# Abstracts

## Optimization of MM-wave distribution networks using silicon-based CPW

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*T.M. Weller, R.M. Henderson, S.V. Robertson and L.P.B. Katehi. "Optimization of MM-wave distribution networks using silicon-based CPW." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 537-540.*

This paper describes work relating to the optimization of silicon-based, coplanar waveguide (CPW) air-bridge and bend discontinuities. Experimental results shown here verify that the return loss is improved by introducing a step-compensation into the CPW center conductor. The technique is demonstrated in the design of an asymmetric coplanar-strip Wilkinson power divider at 45 GHz.

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