

# Abstracts

## Low cost millimeterwave aperture coupled antenna array on polymer membrane substrate

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S. Perrot, Ch. Person, C. Quendo and M. Ney. "Low cost millimeterwave aperture coupled antenna array on polymer membrane substrate." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 577-580.

The membrane technology appears as a convenient solution for high frequency applications. The development of low-cost millimeterwave antenna arrays is discussed in this paper, using polymer dielectric film as a membrane support. An original membrane aperture coupled antenna array is proposed and compared with a planar microstrip approach. Experimental and theoretical results are presented on several topologies.

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