

# Abstracts

## New Multibeam Beamforming Networks for Phased Array Antennas Using Advanced MMCM Technology

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*F. Coromina, J. Ventura-Traveset, J.L. Corral, Y. Bonnaire and A. Dravet. "New Multibeam Beamforming Networks for Phased Array Antennas Using Advanced MMCM Technology." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. 1 [MWSYM]): 79-82.*

A new concept for the implementation of complex RF beamforming networks (BFN) based on Microwave MultiChip Module (MMCM) technology, including MMICs and 3D multilayer structure is presented. Its validity is fully demonstrated by the fabrication and characterization of a S-Band 9x9 beamformer using low cost, low mass space qualifiable processes and exhibiting remarkable RF performances.

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