# Abstracts

## Asymmetrical Structure Fin-line: An Alternative for Satellite Applications

*J.M. Goutoule, P. Espes, P. Fraise and P. Combes. "Asymmetrical Structure Fin-line: An Alternative for Satellite Applications." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 217-220.*

A new kind of fin-line has been developped, compatible with classical M.I.C. technology: the dielectric substrate is soldered in an asymmetrical wave-guide. We first expose the reasons which, in space applications, lead to this structure. Then we present a theoretical model, based on spectral domain analysis, and we compare the Electromagnetic Field distribution of the new line and of classical line. At last a 4/20 GHz Up converter is presented, using the Asymmetrical Structure Fin-Line (ASFL).

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