

# Abstracts

## A Novel Uniplanar Bi-Phase( $0^\circ$ - $180^\circ$ ) Modulator/Mixer

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*K. Hettak, E. Rius, J.P. Coupez, S. Toutain, P. Legaud and E. Penard. "A Novel Uniplanar Bi-Phase( $0^\circ$ - $180^\circ$ ) Modulator/Mixer." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 957-960.*

The overall goal of this paper is to design a new modulator/mixer at 38 GHz in uniplanar technology. The primary objective is to developing a theoretical and an experimental study of each elementary block in the millimeter frequency range allows us directly to design the device at 38 GHz. As part of this study, a uniplanar modulator/mixer was built in X band in order to aid in the verification of the design concept.

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