

# Abstracts

## 77 GHz planar Gunn VCOs on AlN substrates using novel flip-chip InP Gunn diodes

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A. Nakagawa, K. Watanabe, T. Yoshida, T. Deguchi and Y. Oki. "77 GHz planar Gunn VCOs on AlN substrates using novel flip-chip InP Gunn diodes." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1205-1208.

A planar Gunn VCO on an AlN substrate has been developed for applications in 76-77 GHz automotive radar systems. It is fabricated using a novel flip-chip InP Gunn diode. A tuning range of 770 MHz at a center frequency of 76.45 GHz is obtained. An output power of the VCO is on average 42.7 mW and shows a variation of less than 0.15 dB.

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