

# Abstracts

## **Ka-band low loss and high power handling GaAs PIN diode MMIC phase shifter for reflected-type phased array systems**

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*H. Takasu, F. Sadaki, M. Kawano and S. Kamihashi. "Ka-band low loss and high power handling GaAs PIN diode MMIC phase shifter for reflected-type phased array systems." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 467-470 vol.2.*

This paper describes the design and performances of a GaAs PIN diode and a reflected-type MMIC phase shifter in Ka-band. With optimized geometries and fabrication process, the GaAs PIN diode has shown the highest fmax so far. Excellent performances of MMIC phase shifters have also been obtained.

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