

# Abstracts

## Two Ka-band quasi-optical amplifier arrays

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*M. Forman, T. Marshall and Z. Popovic. "Two Ka-band quasi-optical amplifier arrays." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1829-1832 vol.4.*

Performance repeatability, thermal properties, and effects of biasing are studied on two Ka-band quasi-optical slot amplifier arrays fabricated with commercial MMICs on 254- $\mu$ m aluminum-nitride substrates. The unit cells are arranged in a 6/spl times/6 triangular lattice to suppress sidelobes. The amplifier arrays have peak small-signal gains of 2.1 dB at 31.02 GHz and 6.5 dB at 31.40 GHz, respectively.

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