

# Abstracts

## High output power, broadband 28-56 GHz MMIC frequency doubler

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*C. Fager, L. Landen and H. Zirath. "High output power, broadband 28-56 GHz MMIC frequency doubler." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1589-1591.*

An active single-ended 28-6 GHz MMIC frequency doubler based on a commercial GaAs HEMT process is presented. The presented doubler is broadband and delivers high output power. At 5 dBm input power, the doubler delivers 6 dBm output power. The 3 dB bandwidth is between 48 GHz and 60 GHz. Suppression of the input frequency is better than 23 dB at the design frequency.

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