

Abstracts

164-GHz MMIC HEMT doubler

V. Radisic, M. Micovic, M. Hu, P. Janke, C. Ngo, L. Nguyen, L. Samoska and M. Morgan. "164-GHz MMIC HEMT doubler." 2001 Microwave and Wireless Components Letters 11.6 (Jun. 2001 [MWCL]): 241-243.

In this paper, a MMIC frequency doubler based on an InP HEMT and grounded CPW (GCPW) technology is reported. The doubler demonstrated a conversion loss of only 2 dB and output power of 5 dBm at 164 GHz. The 3 dB output power bandwidth is 14 GHz, or 8.5%. This is the best reported result for a MMIC HEMT doubler above 100 GHz.

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