Abstracts

A comparison of W-band monolithic resistive mixer architectures

A.R. Barnes, P. Munday, R. Jennings and M.T. Moore. "A comparison of W-band monolithic resistive mixer architectures." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1867-1870 vol.3.

Three W-band resistive mixer architectures have been designed and their performance compared and contrasted. The mixers were fabricated using 0.1 /spl mu/m gate length InP HEMT technology for improved conversion loss performance compared to GaAs pHEMT. In particular, a state of art 94 GHz sub-harmonic resistive mixer is reported with 9.5 dB conversion loss when operated with a LO drive level of 2 dBm.

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