

Abstracts

Low phase-noise GaInP/GaAs-HBT MMIC oscillators up to 36 GHz

H. Kuhnert, F. Lenk, J. Hilsenbeck, J. Wurfl and W. Heinrich. "Low phase-noise GaInP/GaAs-HBT MMIC oscillators up to 36 GHz." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1551-1554 vol.3.

Monolithic coplanar 18 and 36 GHz oscillators with GaInP/GaAs-HBTs and on-chip resonators are presented. Measured phase-noise reaches -93 dBc/Hz and -91 dBc/Hz at 100 kHz offset for 18 and 36 GHz, respectively. These values demonstrate that GaAs-HBT oscillators yield a phase-noise performance comparable to SiGe-HBTs, with the potential for higher frequencies.

[Return to main document.](#)