

Abstracts

Direct DC to RF Conversion by Picosecond Optoelectronic Switching

C.S. Chang, M.C. Jeng, M.J. Rhee, C.H. Lee, A. Rosen and H. Davis. "Direct DC to RF Conversion by Picosecond Optoelectronic Switching." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 540-541.

Conversion of dc energy to RF pulses has been demonstrated by picosecond optoelectronic switching in silicon. Sequential waveform of two and one half cycles has been generated with voltage conversion efficiency better than 90%. This type of device has the potential of generating megawatt power at frequencies extending into the millimeter-wave region.

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