

Abstracts

A 1kW/sub peak/, 300 W/sub avg/ IMPATT Diode Injection Locked Oscillator

C.A. Drubin, A.L. Hieber, G. Jerinic and A.S. Marinilli. "A 1kW/sub peak/, 300 W/sub avg/ IMPATT Diode Injection Locked Oscillator." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 126-128.

Design procedures were developed for and applied to a circularly cylindrical resonant cavity combiner (CCRCC) operating in the TM /sub 020/ mode. Thirty-two (32) GaAs double-drift IMPATT diodes were power combined in such a structure yielding 313 watts average and 1043 watts peak at X-Band.

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