

Abstracts

A 63 W W-Band Injection-Locked Pulsed Solid State Transmitter (1981 [MWSYM])

H.C. Yen and K. Chang. "A 63 W W-Band Injection-Locked Pulsed Solid State Transmitter (1981 [MWSYM])." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 341-343.

A high power three-stage W-band injection-locked pulsed solid state transmitter using four hybrid-coupled two-diode IMPATT power combiners as the final stage has been developed. Coherent peak output power of 63 W at 92.6 GHz has been achieved. The transmitter was operated at 100 ns pulselwidth and 0.5 percent duty cycle.

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