Abstracts

A 63-W W-Band Injection-Locked Pulsed Solid-State Transmitter (Dec. 1981 [T-MTT])

H.-C. Yen and K. Chang. "A 63-W W-Band Injection-Locked Pulsed Solid-State Transmitter (Dec. 1981 [T-MTT])." 1981 Transactions on Microwave Theory and Techniques 29.12 (Dec. 1981 [T-MTT] (1981 Symposium Issue)): 1292-1297.

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 and 92.6 GHz was achieved. The transmitter was operated at 100-ns pulsewidth and 0.5-percent duty cycle. This transmitter development was directed at achieving a high-power output that would be useful for future miltimeter-wave system applications.

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