

A Traveling-Wave Resonant Tunnel Diode Pulse Generator

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Traveling-wave resonant tunnel diode (TWRTD) pulse generators comprising transmission lines periodically loaded by GaAs/AIAs resonant tunnel diodes (RTD's) are fabricated. The TWRTD pulse generators have convolved transition times of 3.5 ps when measured with an active probe. Using identical RTD's, TWRTD pulse generators can attain smaller transition times than those obtained with switching circuits employing a single RTD.

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