

Abstracts

Active Endfire Antenna Elements and Power Combiners Using Notch Antennas

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A Gunn device has been integrated with a planar, endfire notch antenna. A simple transmission-line model has been developed to optimize the passive and active circuit parameters. An electronic tuning bandwidth of 275 MHz centered at 9.33 GHz with a maximum power output of 37.5 mW was accomplished. Two active notches in a broadside array configuration were injection-locked at 9.484 GHz with a 30 MHz locking bandwidth and well over 90% power combining efficiency.

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