Abstracts

Inverted Stripline Antennas Integrated with Passive and Active Solid-State Devices

J.A. Navarro and K. Chang. "Inverted Stripline Antennas Integrated with Passive and Active Solid-State Devices." 1995 Transactions on Microwave Theory and Techniques 43.9 (Sep. 1995, Part I [T-MTT]): 2059-2065.

Integrated antennas can reduce the size, weight, and cost of many microwave systems by incorporating component functions directly at the antenna terminals. Their use in many commercial system applications can produce compact, low-cost products. Currently, active integrated antennas are used for distributed oscillators in spatial and quasi-optical power combining. The inverted stripline antenna configuration was developed to easily integrate with solid-state diodes or transistor devices for switching, tuning, modulation, amplification, and oscillating functions. This antenna configuration offers good performance, beam sharpening flexibility, and nondestructive optimization. Good switching, tuning, and oscillating performances have been demonstrated.

❑ Return to main document.