

Abstracts

Active Cavity-Backed Slot Antenna Using MESFET's

H.P. Moyer and R.A. York. "Active Cavity-Backed Slot Antenna Using MESFET's." 1993 Microwave and Guided Wave Letters 3.4 (Apr. 1993 [MGWL]): 95-97.

An active cavity-backed slot antenna for quasioptical arrays is described. A packaged GaAs MESFET with a coplanar matching network was used for the oscillator circuit. This configuration yields the expected slot antenna radiation pattern with a compact layout, low cross-polarization, and increased directivity due to the cavity backing. The measured patterns with cavity backing show a significant improvement compared with the same oscillator without cavity-backing.

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