

Abstracts

Microwave Broadband Phased Array Element: Design and Performance (Microstrip Horn Opened by Conducting Flaps)

A.C. Garcia, V. Such, J.L. Cruz and B. Gimeno. "Microwave Broadband Phased Array Element: Design and Performance (Microstrip Horn Opened by Conducting Flaps)." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. 1 [MWSYM]): 135-138.

In this paper the design and performance of a broadband phased array element with adequate angular coverage is presented. It was also desirable that this element were easily adaptable to microstrip technology as an alternative to notch or Vivaldi antennas. Radiation field calculation, design parameters study, design process as well as pattern and reflection coefficient measures of a prototype are included.

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