

Abstracts

A flat four-beam compact phased array antenna

M. Krairiksh, P. Ngamjanyaporn and C. Kessuwan. "A flat four-beam compact phased array antenna." 2002 Microwave and Wireless Components Letters 12.5 (May 2002 [MWCL]): 184-186.

This paper presents a flat four-beam compact phased array antenna. The low-cost and compact phased array antenna is designed using a circular array of four circular microstrip antennas made of low-cost material and four 1-bit phase shifters. The main beam of the antenna can be switched in four directions with the gain of about 4 dBi in each main-beam direction. More than 90/spl deg/ half-power beamwidth and over 10 dB F/B ratio are obtained. In addition, the diversity performance is considered and the diversity performance of this antenna can be provided with the envelope correlation about 0.6.

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