

543. Title:An omnidirectional microstrip antenna for WiMAX applications

Authors:Li, Jiusheng (1)

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Abstract:An omnidirectional broad-bandwidth microstrip array antenna is proposed, fabricated, and tested. The operating bandwidth of the antenna with usable broadside radiation patterns is about 1910 MHz (2.75-4.66 GHz), which is quite suitable for the application of the WiMAX 3.5-GHz system. The overall dimension of the antenna comes around 550 &times; 10 &times; 0.85 mm<sup>3</sup>. This antenna has the advantages of simple configuration, low profile, compactness, and low fabrication cost. Microwave experiments and numerical simulations are performed to demonstrate its functionalities.