

Documents

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A printed wideband MIMO antenna system for GSM1800/1900, UMTS, WLAN2450, LTE2300/2500, and GPS applications
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Abstract

A low-profile wideband multiple-input-multiple-output (MIMO) antenna is presented. The proposed antenna is suitable for mobile terminals applications as its measured -10 dB bandwidth ranges from 1.56 GHz to 2.77GHz. The overall antenna efficiency ranges from 68% to 83% over the operating bandwidth. The overall size of the proposed antenna is $60 \times 97 \times 0.8$ mm³. A novel isolation structure is employed to achieve isolation range of -26 dB to -16 dB. The radiation patterns are measured, and envelope correlation coefficient is evaluated. The simulated and measured results are in good agreement. © 2016, Electromagnetics Academy. All Rights Reserved.

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