

L and S shape PIFA antenna for triple-band (DCS/PCS/UMTS) mobile handset

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Abstract

A compact antenna that operates at three frequency bands suitable for mobile handsets is proposed. The antenna is a PIFA (planar inverted-F antenna) printed on a dielectric laminate board with a shorting pin and a coaxial cable for feeding. Measured results for the proposed antenna are compared to the simulation results and a significant agreement is observed. The proposed antenna has small dimensions, a rigid structure and relatively low profile compared to conventional PIFAs designs.