



A Novel Printed Monopole Antenna for Future Ultrawideband Communication Systems

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Abstract:

In this letter, a novel microstrip line-fed printed monopole antenna for ultra-wideband (UWB) short-range wireless communications is proposed. The proposed antenna consists of a trapezoidal-shaped patch with two elliptical-shaped cuts from its edge forming a bell-shaped cut. Experimental results shows that the designed antenna operates over impedance bandwidth 3.2–11.4 GHz for return loss S_{11}

Published In:

Microwave and Optical Technology Letters , Vol. 53, Issue 8 , pages 1837–1841