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A 3.5 GHz Wearable Antipodal Vivaldi Antenna for 5G Applications

Abstract

This paper represents a wideband wearable antenna for 5G applications. In this proposed design, an antipodal vivaldi antenna structure is implemented on a polyimide and polyester combined substrate. The 120 × 95 × 0.82 mm3 sized antenna acquired a wide bandwidth of 910 MHz with a realized gain of 5.42 dBi and efficiency of 96 percent.

Keywords

5G application; Antipodal Vivaldi; Polyester; Polyimide