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ANALYSIS & DESIGNING OF E-SHAPE MICROSTRIP ANTENNA WITH SLOT FOR ISM BAND

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ABSTRACT

In this paper, E-shaped microstrip patch antenna with slot is proposed for ISM BAND application. The proposed antenna project is about microstrip antenna with meandered ground plane. The design adopts contemporary techniques; coaxial probe feeding, E-shape patch structure and slotted patch. The composite effect of introducing the proposed patch, offer a low profile, broadband, and low cross-polarization level. The results for the return loss, VSWR, gain and co-and cross-polarization patterns are presented. The antenna operating the band of 2.40-2.48GHz shows an comparative impedance bandwidth and its gain table for various shape arrangement. The entire project is design and simulated in an soft HFSS software.

KEYWORDS: E-Shape MSA with Slot, Co-Axial Feed, Return Loss, VSWR, an Soft HFSS V.11