

100. DESIGN OF U SLOT MICROSTRIP ANTENNA FOR WLAN APPLICATION

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In this paper, a U slot microstrip patch antenna is designed and the simulation results are obtained using CST studio suite 2010 software package. The designed antenna has simple structure with U slot operating for the application of WLAN. The overall dimension of the antenna comes around 64x74x3.175mm. The simulated results show that the slot loaded patch antenna achieves impedance bandwidth of 12% for VSWR < 2 and it covers a frequency range from 5.18 GHz to 5.8 GHz with a return loss of -13.45 dB. Coaxial feed method is used to excite the patch antenna.

Keywords: Microstrip antenna; WLAN; Return loss; VSWR; U slot.

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