Abstract

In this paper, the meander line antenna which operates at 2.5 GHz was designed and analyzed. The tool named High Frequency Structure Simulator was used for design and simulate antenna. The antenna was designed on a Rogers Ultralam 1250 (tm) substrate with dielectric constant with relative permittivity of 2.5 and dielectric loss tangent of 0.0015 with a thickness of 2 mm. The performance of antenna was evaluated based on return loss, operational bandwidth, gain, VSWR and radiation pattern characteristics. During measurement return loss was measured by reading the S(1,1) port reflection constant parameter and it was found to be -20 dB.

References

Design of Meander Line Antenna for Operating Frequency of 2.5 GHz


Index Terms

Computer Science  Communications

Keywords

Antenna  Meander line antenna  VSWR  wireless  S-parameter.