

Abstract Submitted
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Microstrip Patch Antenna KYLE KENT, None — We present a microstrip based patch antenna design which is suitable for the high-band spectrum of 5G communications. The miniature size of this antenna makes it suitable to be integrated in various types of communication devices. We have chosen commonly available Fire Resistant 4 (FR4) epoxy board with relative permittivity of 4.4 and a thickness of 1.6mm as the di-electric material for this design. The antenna has been analyzed for its return loss, current distribution and radiation pattern. Reflection coefficient of the scattering matrix element S11 from our experimental design closely match the simulated values of S11 over a wide range of frequencies. This low-cost and compact design is ideal for mobile and other wireless communication applications.

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None

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