Analysis of Different Shapes of Radiating Patch and Ground Plane in Wideband CPW - Fed MSA

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Abstract

Various Coplanar Waveguide fed microstrip antennas with different ground planes and different radiating patches for broader bandwidth are proposed. The effect of changing periphery of the radiating patch from square to pentagon, pentagon to hexagon, hexagon to octagon and octagon to circle on resonance curve is studied. Similar study has been done by changing the shape of ground plane. The configuration yields bandwidth of more than 5GHz.

References

- IE3D 14, Zeland software Inc., Fremont, CA.

Index Terms

Computer Science

Circuits And Systems
Keywords
Coplanar Waveguide Fed Antenna  Square Slot  Circular Slot  Octagonal Radiation
Patch  Broadband
Microstrip Antenna