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Planar Inverted F Antenna, PIFA Array in 5G applications

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Planar inverted F antenna (PIFA) is mainly fit for mobile devices. PIFA is mostly designed for dual band frequencies as it is capable of covering wide range of wireless services. This in turn helps in making it acceptable for designing mobile devices. Sizes of ground plane as well as PIFA's position with respect to ground plane actually effect the performance of PIFA. For example, placement of PIFA at corner of ground plane shows good radiation pattern. Major prerequisite of 5G is nothing but the capability to enhance data volume to every single user, while supporting majority of mobile users as well as new maneuvers. The best part is advanced antenna array technologies are able to meet such requirements. Although PIFA antenna has gained popularity in designing mobile handsets, because of light weight, lower cost as well as higher directivity, PIFA antenna Arrays have

provide better gain than single PIFA antenna in same frequency band. Current work presents a comprehensive study on so far impact of PIFA as well as PIFA Array in providing infrastructure for future mobile innovations suitable for 5G communication.

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