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(57) Abstract :

The present invention, an efficient digitate leaf shaped micrstrap patch anrenna for wearable devices comprise of at least one digitate leaf-shaped patch 101 with wash cotton substrate of dielectric constant 1.4 and substrate thickness 1.6mm. The present radiator 101 is fed by microstrip feed Line technique. The antenna parameters such as VSWR, Return Loss, Radiation pattern and gain are simulated using AnSoft HFSS software. The main advantage of the present invention is that it resonates for multiband frequency. The radiation pattern is nearly omnidirectional for all the frequency range and also exhibits a reasonable H-plane Omni-directional radiation and doughnut-shaped radiation in E-plane.

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