

MICROSTRIP PATCH ANTENNA OPERATING AT DUAL RESONANT FREQUENCY WITH PROBE FEEDING FOR WIRELESS APPLICATIONS

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ABSTRACT

In this paper, a microstrip patch antenna with enhanced bandwidth is presented. It has been shown that by cutting a slot in the radiating patch the antenna resonates at dual frequency of 4.03 GHz and 3.42 GHz. The impedance bandwidth determined from the -9.55 dB return loss is from 4.21 to 3.27 GHz, equivalent to 0.94 GHz or about 25.1% with respect to the centre frequency at 3.74 GHz, and is sufficient to fully cover the desired bands required for wireless applications.

KEYWORDS: Microstrip Patch Antenna, Dual Resonant Frequency, Wide Bandwidth, Wireless Application