

DESIGN AND PERFORMANCE ANALYSIS OF VARIOUS PARAMETERS OF SINGLE AND MULTI LAYER OF MSPAs

S. Phani Varaprasad & P. Ashok Kumar

*Assistant Professor, Department of ECE, Avanthi Institute of Engineering & Technology, Tamaram, Makavarapalem,
Narsipatnam Revenue Division, Visakhapatnam, Andhra Pradesh, India*

ABSTRACT

This paper is focused on return loss of rectangular substrate with rectangular and circular patches at various substrate thicknesses i.e., 1.6mm, 5mm and 8mm. The analysis of a micro strip antenna in terms of multilayered substrate and patch antennas. Microstrip antennas are attractive due to their light weight, conformability and low cost. These antennas can be integrated with printed strip-line feed networks and active devices. Execution examination of different parameters are S11, return loss, VSWR and Gain. The substrate utilized is Arlon Cu 217Lx having dielectric constant 2.2, Arlon AR 450 having dielectric constant 4.5 and Arlon AR 600 having dielectric constant 6. The point of this paper is execution examination of different parameters with single layer and multi layer substrates. Investigation is finished by utilizing CST tool.

KEYWORDS: *Micro Strip Antenna, Rectangular and Circular Patch, S11, Return Loss, VSWR and Gain.*

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