

# Dual Feed Square Patch Antenna for Broadcast Receiver

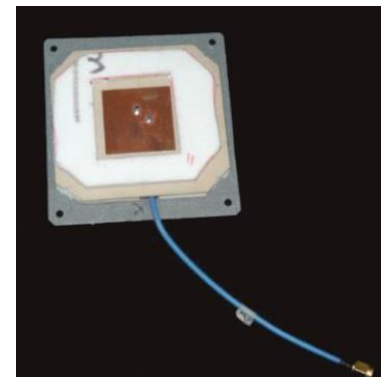
## Introduction:

Designed and developed light weight compact volume profile Dual Feed Square Patch antenna for Broadcast receiver. Antenna is optimized with ABS radome & tested. Measured return loss is better than 17 dB over receive S band. Measured gain and axial ratio is better than 2.5 dB and less than 3 dB up to theta  $\pm 45^\circ$  in all phi planes. Antenna with radome is tested in terminal from GSAT-6 Satellite.

## Features:

S. no.	Parameters	Specifications
1.	Frequency band	2.56-2.59 GHz
2.	Return loss	Better than 17 dB
3.	Gain	2.5dB at theta $\pm 45^\circ$ in all phi planes
4.	Axial ratio	Less than 3dB at theta $\pm 45^\circ$ in all phi planes
5.	Size	70x70x5 mm <sup>3</sup>
6.	Weight	30 gm

## Developed Hardware:



## Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: