

X band Wide Scan Active Phased Array Antenna

Design Features

- Multilayer Microstrip antenna
- Suitable for wide scanning up to 60 degree
- Wide Bandwidth as compared to contemporary system
- Available simulation tools and customized code for planar antenna



Planar Array Antenna Facility



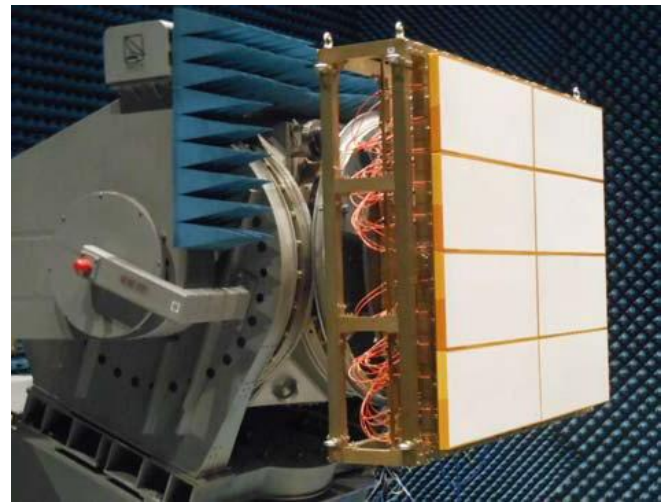
CATF Facility

Major Specifications

- Frequency : L band to X Band
- VSWR : 1.5:1
- Gain : better than 20 dB
- Bandwidth : 5-10 %
- Polarization : Vertical, Horizontal & Dual
- Peak Power : up to 15% Duty Cycle
- Scanning Capability : Azimuth $\pm 60^\circ$, Elevation $\pm 60^\circ$
- Measurement of Active Antenna Element Pattern

Capabilities

- Multilayer Antenna development facility at SAC
- Qualified Materials for sustaining extreme temperature range
- Compact Antenna Test Facility for Accurate Pattern Measurement
- Developed & characterized wide scan active phased array antenna
- Developed 8X8 X band planar array antenna



SAC designed Wide scanning Antenna at L band

Applications

- Wide scanning antenna
- Tracking radar
- Phased array antenna

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: