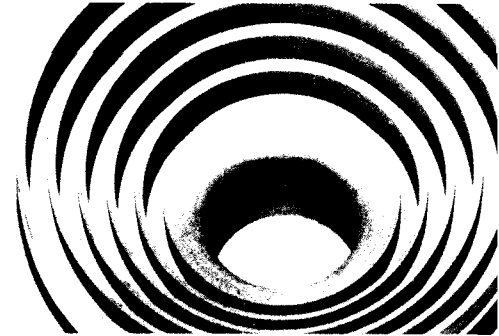
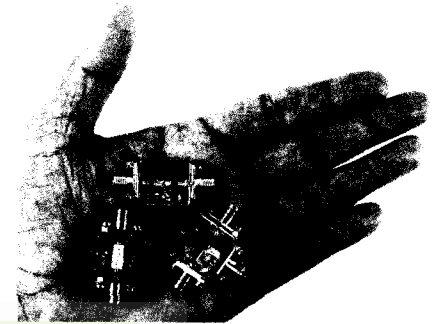


Growing



Winning



Learning



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**ASTRA MICROWAVE PRODUCTS LIMITED**  
Nurturing the winning habit

## Growing. Winning. Learning.

Taking its financial performance to a new high, Astra Microwave Products Limited has yet again proved that winning can be a carefully nurtured habit. As we deliver consistent growth year after year, unseen in the background is a Company that is gearing up to successfully meet the challenges that are likely to come along the way in its pursuit to become a globally recognized RF & Microwave Company.





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To be at the forefront of the telecommunication revolution through research and development.

Investing in technologies that can lead to leadership.

Employ the finest talent to reach the top through excellence.

B. Malla Reddy  
*Managing Director*



*"We strive to move with the technology and trends to work  
with our customers from space, defence and industry"*

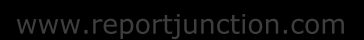
Dr. R.P. Shenoy,  
*Chairman*



*Reach for the Stars!* is not just the vision but also the trajectory for the products of your company when they orbit around mother earth in the near future. For our share holders we are a company that has consistently maintained growth without diluting profitability and to our customers we are an organisation that meets their stringent specifications at an affordable cost. In the pages that follow the figures bring these aspects unmistakably.

The field of microwave and millimeter wave engineering in which we are engaged is a high technology area because of the precision and complexity of the hardware and extensive application of software for design, development and manufacture. In knowledge terms, the entry barriers to this field of activity are high and we have constantly renewed the knowledge pool and engineering practices in anticipation of the needs of our customers. Our participation in the design of high performance systems which our customers are engaged upon utilize components and subsystems which are system specific. Before we came on the scene, microwave engineers in our country had to suffer delays and pay out significant sums of money as non recurring engineering costs to companies abroad for products required by them. We filled an important void by providing them RF solutions at an affordable cost.

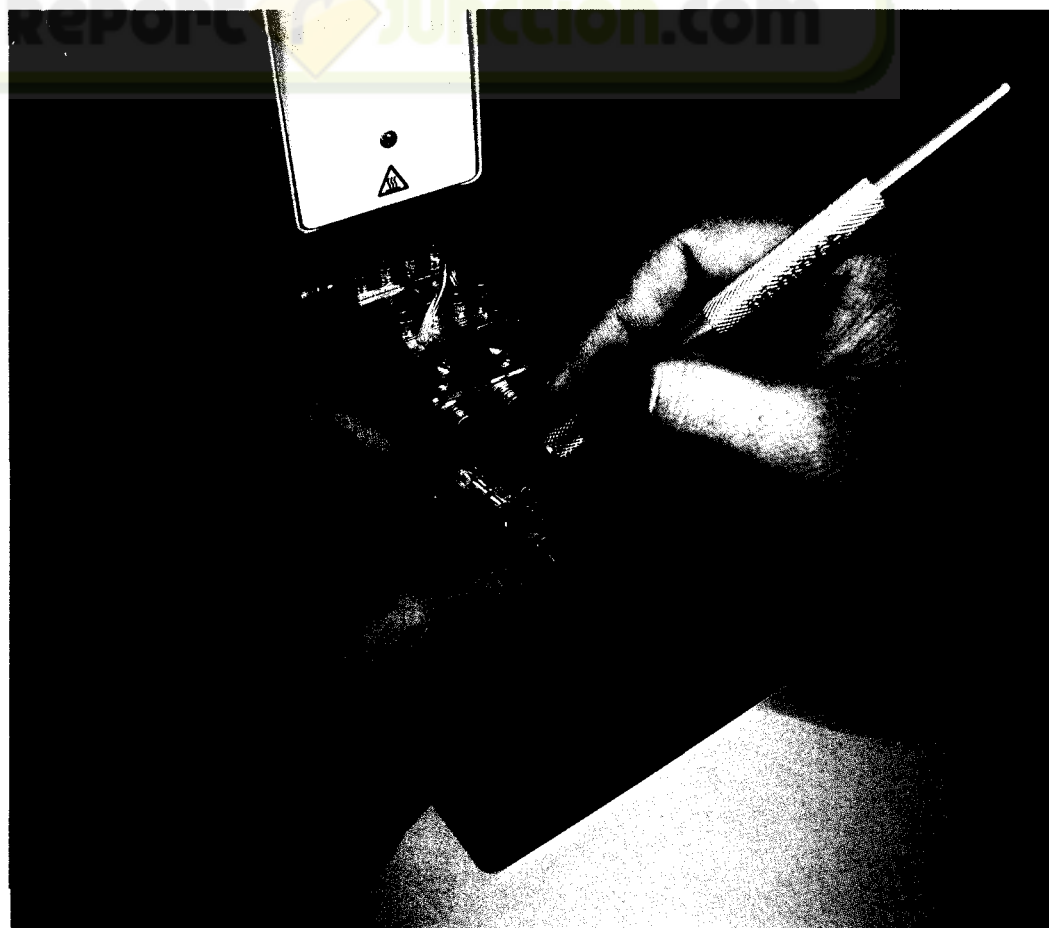
Microwaves and millimeter waves are finding increasing application because of the crowding of the electromagnetic spectrum and the increasing application of "wireless" to provide connectivity to humans. The trend is towards light weight, compact, low power and multi-function RF solutions. The world of technology is moving towards RF Systems on Package with multiple chip integration, compact three dimensional integration and multilayer packaging. We strive to move with the technology and trends to work with our customers from space, defence and industry and accordingly meet their needs while providing quality, and maintaining performance standards expected of us. Rooted firmly on the ground we will grow to reach for the stars.





## Winning Innovations

An innovator lives on the power of his convictions, blazing a trail where others have never tread. Nothing can cloud his vision, for the path is always clear to him. The 'innovator' in each *Astraite* has enabled the Company to set new standards in the RF & Microwave area and deliver regular breakthroughs.

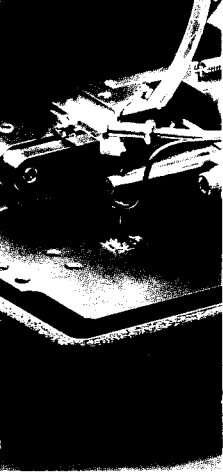




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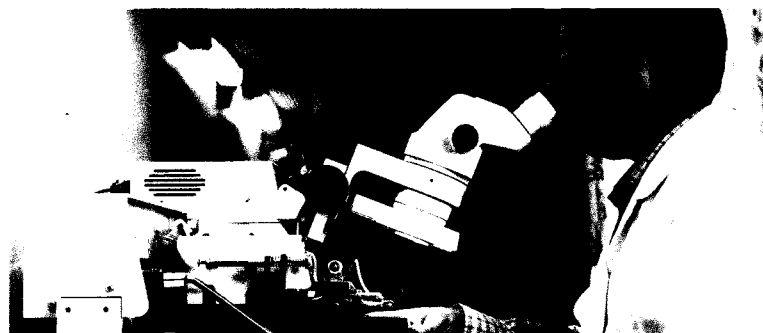




## World Class Facilities

The R&D, Manufacturing and Test facilities of the Company compare with the best globally and serve as an assurance to our esteemed customers as a symbol of highest quality and reliability. The facility are designed with a futuristic vision with adequate physical infrastructure in place to accommodate expansion requirements in the medium term. The facilities are ISO 9001 certified and are equipped with state of the art equipments including:

- Vector Analyzers
- Scalar Analyzers
- Network Analyzers
- CAD Station
- Environment Chambers
- Power Meters
- Plotters
- Function & Pulse Generators
- Antenna Test Range
- Hi Precision Bonding Machines
- Ultrasonic cleaner for cleaning substrate, housing etc.
- Temperature controlled Hot plate with nitrogen purging facility for eutectic attachment.
- Clean room compatible oven for curing epoxy.
- Working Microscopes with X20 to X100 magnification.
- Thermosonic wire bonders for ball and wedge bonding with deepaccess facility.
- Parallel gap welding system.
- Dicing system for cutting alumina substrate, GaAs and silicon wafers.
- Resistive welding system for package sealing.



N U R T U R I N G   T H E   W I N N I N G   H A B I T

