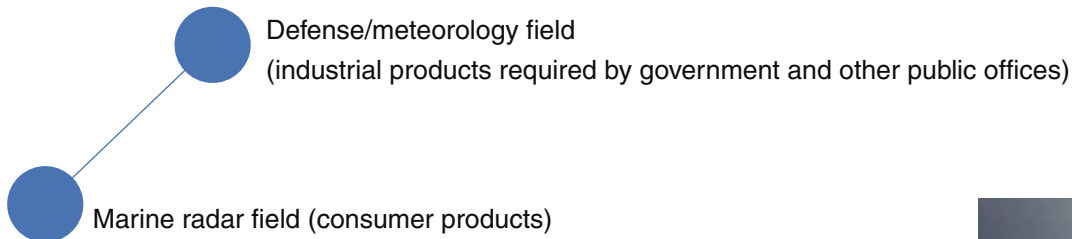


# Microwave Tubes and Radar Components Division

## Products

The mainstay products in the microwave tubes & peripheral equipment division are in two fields:



● Industrial products required by government and other public offices are expected to enjoy stable future sales and profits in the context of their high share of the domestic market.

It is unlikely that high-power electronic tubes will be replaced by semiconductors, so demand from government and other public offices is expected to be stable in the future.

● In consumer products, a design-in electronic tube is being developed to meet new spurious-noise regulations to be enforced from 2003; the design-in electronic tube is highly valued by both domestic and overseas radar manufacturers.

We aim to maintain a high share of the market for electronic tubes for next-generation radar.

We are also promoting development of a new semiconductor device (SiC) to miniaturize and cut the weight of radar devices thus targeting the low-end marine radar market (pleasure boat).

## Business results

Sales of electronic tubes and peripheral equipment to government and other public offices remained good because major customers have completed inventory adjustment, so sales this year exceeded last year. On the other hand, sales of consumer electronic tubes and peripheral equipment remained sluggish due to stagnation in the marine radar market continuing from last year.

As a result, sales figures were ¥4,567 million (8.7% more than the previous consolidated fiscal year).



M1458A  
This magnetron is for X-band 25-kW radar.

Band-pass-Filter  
This supports the new regulations for spurious emissions.