

Microwave Tubes and Radar Components

Main products

Microwave tubes and radar components cover the following two sections; products for defense and meteorology (governmental- use) field and marine radars (consumer-use) field.

[Business results in fiscal 2002]

Sales accounted to ¥4,543 million (down 0.5% from the previous year). Sales of microwave tubes and radar components to government and other public offices did well, and exceeded the previous year because major customers have completed inventory adjustment. Although the marine radar market is recovering from stagnation, sales of consumer-use microwave tubes and radar components did not exceed those of the last year.

• Governmental-use products

Sales were almost stable because of the particularity of products and customers, long-established achievements, few competitors, etc.



The NJC9936 is X-band Low Pass Filter for the rejection of the magnetron π -1 mode spurious.

• Consumer-use products

Main products in this field are microwave tubes for marine radars. Recovering sales were due to the increase in demands for new vessels and radar replacement.

We have developed design-in microwave tubes to cope with the "new radio regulation" to be enforced after 2003. This technology is highly regarded by radar manufacturers within and outside Japan.



The NJC9937 is X-band Low Pass Filter for the rejection of the magnetron π -1 mode spurious and the 2nd harmonics.



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[General overview]

The microwave tubes and radar components are stable in sales due to our long-established achievements and the particularity of customers, though sale proceeds do not increase so much.

Large-sized microwave tubes for government, and microwave tubes for merchant vessels and leisure boats, account for 70% of the market. In consumer-use products, a design-in microwave tube is being developed to meet the new radio regulation to be enforced from 2003. Our technology of the design-in microwave tubes in these years would be at the highest level in the world.

We also focus on R&D of new semiconductor device (SiC) to miniaturize and cut the weight of radar devices targeting the low-end marine radar market.



X-band Marine Magnetron
(2 kW, 4 kW, 6 kW, 10 kW types)

