M1568BS
M1568BS is designed for the magnetron of x-band radar system. The frequency range is fixed <9380 to 9440 MHz> and the peak output power is 25 kW.

Main Products

Electron Tubes for Radars and Peripheral Equipment
Products in this division are classified roughly into "electron tubes for defense and weather-related radars and peripheral equipment" for government and public use and "electron tubes for marine, avionics and ground-related radars" and peripheral equipment, and cathode products."

[Performance in Fiscal 2007]

Sales of the "electron tubes for radars and peripheral equipment" amounted to ¥2,420 million (increase of 8.0% compared to previous year). Because the shipbuilding market was active, sales of electron tubes for marine radars and peripheral equipment did well, as did sales of electron tubes for ground radars, and sales of cathode products for lamps. Sales amounted to ¥2,159 million (increase of 9.0% compared to previous year). As a result, total sales for the Microwave division amounted to ¥4,579 million (increase of 8.4%).

•Electron Tubes for Defense and Weather-related Radars and Peripheral Equipment

Japan's defense plan is transitioning rapidly from aircraft to missiles so sales of main products for aircraft spares will decrease. However, electron tubes that cannot be replaced by semiconductors continue to be in demand.
We have cultivated a new market for radar component products since fiscal 2006 against the backdrop of a high market share in Japan. We have manufactured and sold a prototype and undergone customer evaluation. We will focus on expanding the product lineup and sales.

•Electron Tubes for Marine, Avionics and Ground-related Radars and Peripheral Equipment

Due to expanding bulk transport mainly to China and globalization, world shipbuilding is booming, creating demand for large marine radars. In this market environment, while promoting design of marine radar devices, we will focus on selling products meeting the new spurious signal regulations. We will also maintain the world's top share by expanding our share of the large marine radar market. We will continue active sales to the worldwide avionics market where more small aircraft are expected to be built and to the ground radar market where there are fewer electron tube manufacturers.

[Targets for Fiscal 2008]

•Electron Tubes for Marine, Avionics, Ground-related Radars and Peripheral Equipment

To make more efficient use of the electro-magnetic spectrum, regulations governing spurious signals may become even stricter. We will use our track record in compliance to supply radar microwave devices as a transmitter and receiver set. Specifically by promoting design-in development, we will supply radar electron tubes and peripheral equipment for next-generation radars.

•Sales of Electron Tubes and Guns for Industrial/Medical Linacs

Medical linacs using X-rays and electron beams are used widely in cancer treatment because of reducing patients' burden. Overseas, there is increasing demand for X-ray linacs for border security inspections and industrial X-ray linacs for inspecting ship and truck containers. We will provide electron tubes and guns for industrial and medical linacs worldwide.

•Developing Solid State Radar Modules using Semiconductor Elements (SiC)

We are developing new semiconductor elements (SiC) for consumer solid-state radar modules. We are pursuing sales in all markets (marine, avionics, ground) based on these small, lightweight, eco-friendly, high-performance devices.

M118
M118 is a mechanicaly tunable frequency palsed type X-band magnetron; designed to operate in the frequency range of 8.5 GHz to 9.6 GHz with a peak output power of 40 kW.

NJC9952
NJC9952 is a wave-guide type tri-function filter, designed for X-band Marine Radar.