Microwave Tubes and Radar Components

Main products

This division covers broadly the following two fields: electron tubes and radar components for defense and meteorology (governmental-use) field, and marine radars (consumer-use) field.

[Business Results in Fiscal 2004]

Sales of electron tubes and radar components for defense and meteorology were sluggish due to inventory adjustment by major customers in large electron tubes.
Sales of consumer-use electron tubes and radar components for marine radars were good because of an active marine market.
Consolidated sales for the entire division were ¥4,447 million (2.8% down year-on-year).

NJC3901B is designed for the circulator of X-band radar system.

• Governmental-use Products

Sales were almost stable because of our high market share based on our long-established achievements and few competitors, etc.

• Consumer-use Products

We launched electron tubes and radar components that cope with the "spurious-noise regulations" into the market to expand the share of the marine radar market. Especially, sales volume of electron tubes and radar components for pleasure boat radars have continuously enjoyed favorable sales, which gives us the world's leading share.
In fiscal 2005, we continue to strengthen the sales of mainly electron tubes and radar components that cope with the "spurious-noise regulations". To achieve size and weight reduction, we will promote the development and sales of microwave parts using semiconductor devices (silicon carbide).

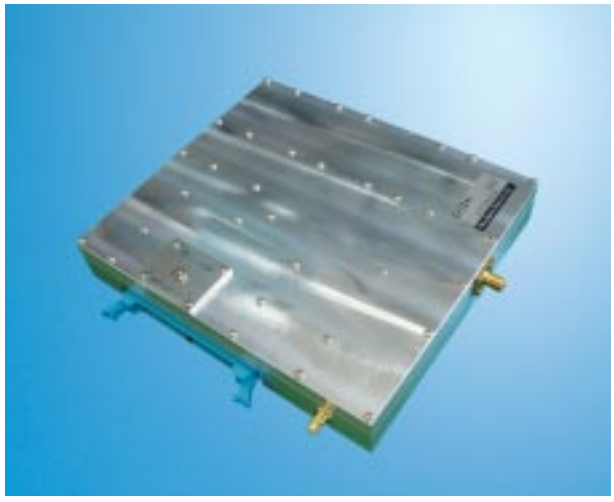
NJS4310D is designed for the front end of radar system.

NJS6318 is designed for the high power limiter of radar system.

[General Overview]

Severe "spurious-noise regulations" are being enacted a global basis from the viewpoint of effective utilization of frequencies. As for large and medium-sized electron tubes, even under these conditions, we can continue to provide a complete set of transmitter-receivers with microwave devices. This enables us to develop and expand with customers, from the design stage for next-generation radars to continue to supply microwave tubes and radar components, resulting in further expansion of market share.

For the market of pleasure radars using small electron tubes, we have developed new semiconductors (SiC) to produce small, light, solid-state radars, further increasing sales.



The high power amplifier module for solid state radar system.

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