

**INDUSTRIAL X-RAY TUBE
I-2112B-Rh****X-ray Tube for Industrial Use**

- ◆ The X-ray tube I-2112B-Rh, which has focus 0.8 is designed for X-ray fluorescence analysis.
- ◆ This tube can be used with maximum tube voltage 50 kV.

General Data**Electrical:**

Circuit:

High Voltage Generator	Constant Potential High-Voltage Generator
Grounding	Cathode and X-ray port grounded
Nominal X-ray Tube Voltage	50 kV
Nominal Focal Spot Value	0.8

Mechanical:

Dimensions:

Overall Length	96 mm
Maximum Diameter	ϕ 33 mm

Target:

Angle	33 degrees
Material	Rh
Inherent Filtration	Be 0.05 mm
X-ray Coverage (Angle)	Minimum 10 degrees conical field
Weight (Approx.)	220 g
Insulating Medium	Insulation Oil
Cooling Method	Oil immersed (60°C Max.) and convection oil cooling.
Tube Holding	Holding the mounting flange with 8-M3 screws

Absolute Maximum and Minimum Ratings
(At any time, these values must not be exceeded.)

Maximum X-ray Tube Voltage	50 kV
Minimum X-ray Tube Voltage	5 kV
Maximum X-ray Tube Current	1 mA
Maximum Filament Current	2.1 A
Filament Frequency Limit	DC or AC (Sine wave) 0 ~ 20 kHz
Maximum Input Energy (Continuously)	50 W

Environmental Limits

Operating Limits (in dielectric oil):

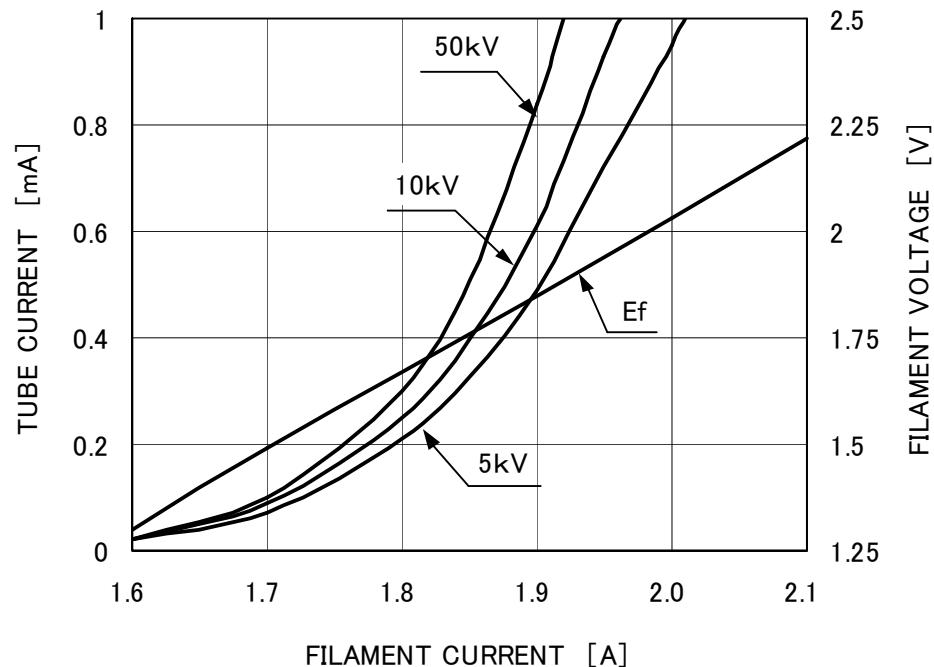
Oil Temperature	10 ~ 60 °C
Oil Pressure	70 ~ 140 kPa

Shipping and Storage Limits:

Temperature	-40 ~ 70 °C
Humidity	10 ~ 90 % (No condensation)
Atmospheric Pressure	50 ~ 106 kPa

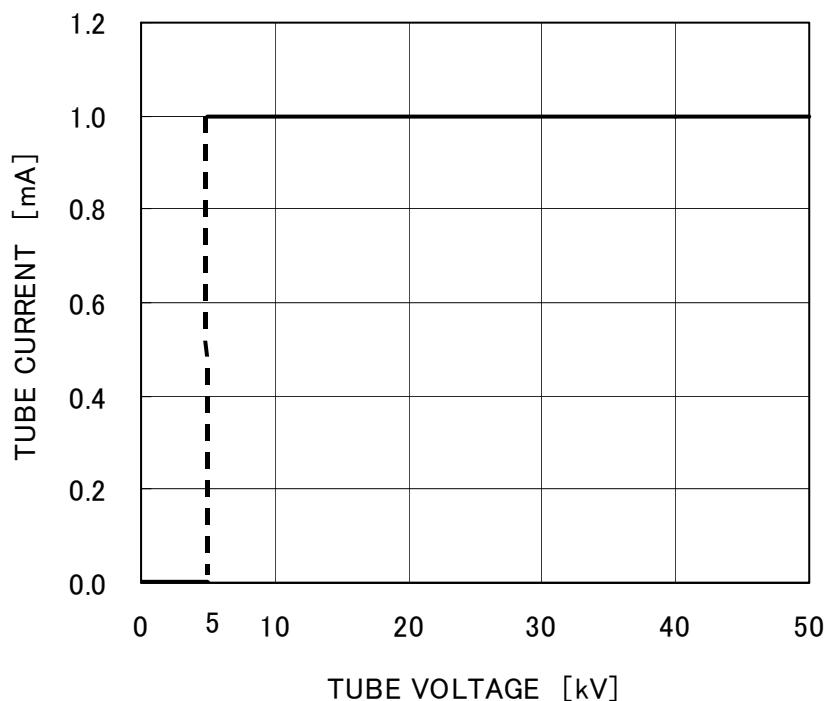
Emission & Filament Characteristics

Constant Potential High-Voltage Generator



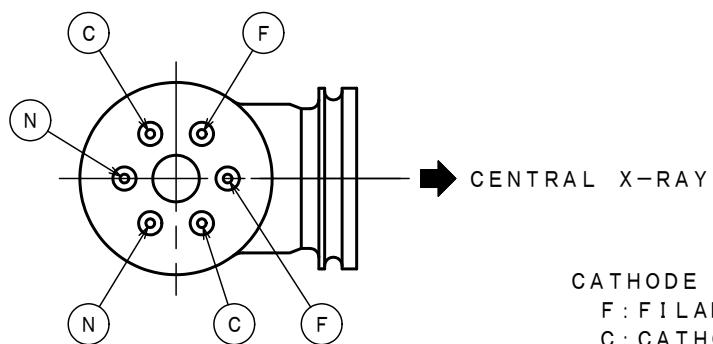
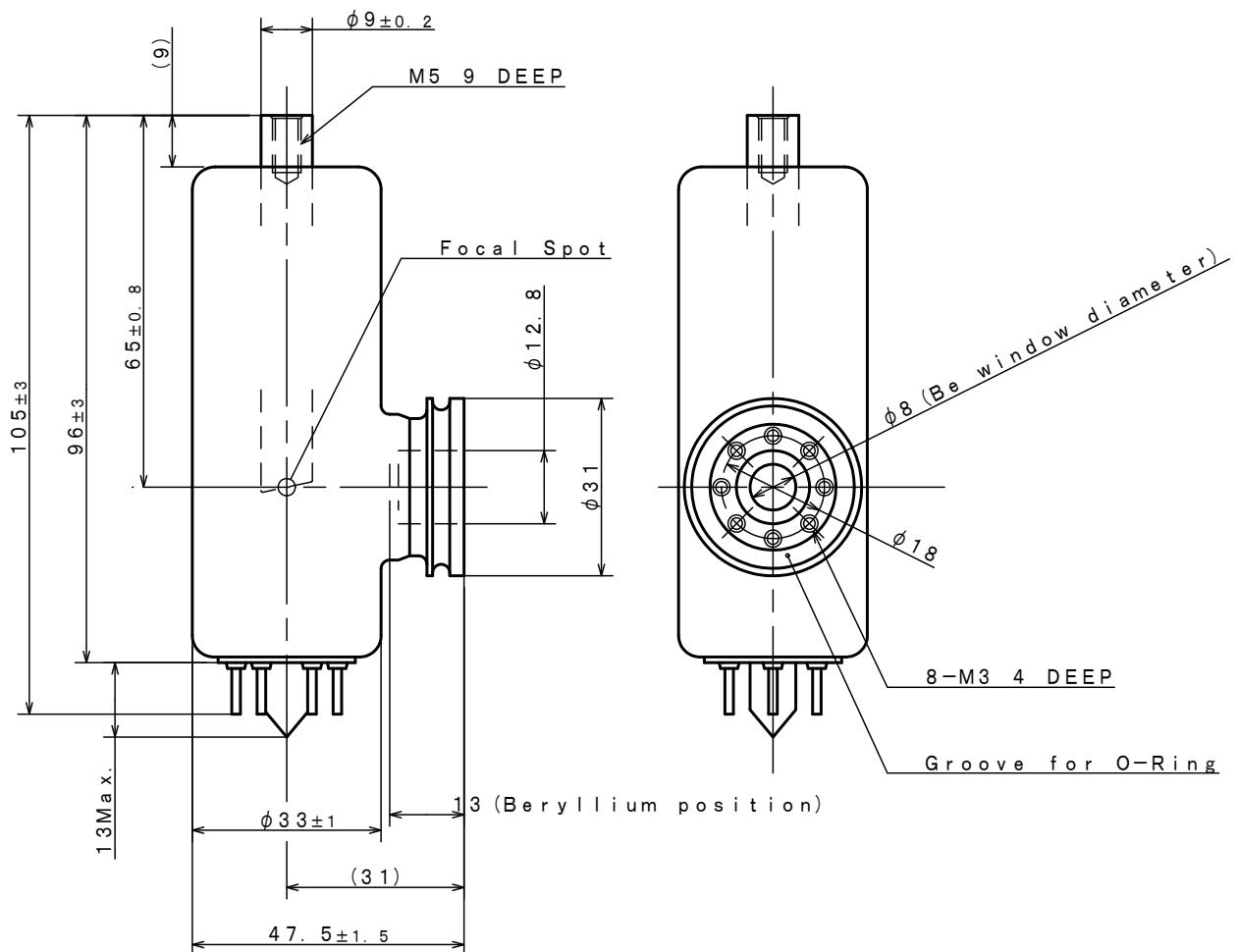
Note: This graph indicate typical characteristics.

Maximum Input (continuous)



Dimensional Outline

Unit: mm



CATHODE TERMINALS

F : FILAMENT

C : CATHODE

Terminal "C" are connected
mutually inside the tube.

N : NOT FOR USE



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• The head office of Canon Electron Tubes & Devices Co., Ltd. has been certified to meet all the requirements of Environmental Management System ISO14001.
• Canon Electron Tubes & Devices Co., Ltd. has been certified to meet all the requirements of Quality Management Systems ISO9001 and ISO13485.
Product scope is referred to the following URL. <https://etd.canon/eng/company/quality.htm>.