

INDUSTRIAL X-RAY TUBE I-2122

X-ray Tube for Industrial Use

- ◆ The X-ray tube I-2122, which has mini-focus 0.15 × 0.1 is designed for non destructive X-ray inspection.
- This tube can be used with maximum 50 kV constant potential circuit of cathode grounded.

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	0.15 × 0.1
Mechanical:	
Dimensions:	
Overall Length	
Maximum Diameter	ϕ 30.5 mm
Target:	
Angle	16 degrees
Material	Tungsten
Inherent Filtration	Be 0.2 mm
X-ray Coverage (Angle)	Minimum 10 degrees conical field
Weight (Approx.)	
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

[★]The information contained herein is presented only as a guide for the application of our products. No responsibility is assumed by Canon Electron Tubes & Devices Co., Ltd. (CETD) for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of CETD or others.

[★]The information contained herein may be changed without prior notice. It is therefore, advisable to contact to CETD before processing with the design of equipment incorporating this product.

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

Maximum X-ray Tube Voltage	50 k\
Minimum X-ray Tube Voltage	10 k\
Maximum X-ray Tube Current	1 m <i>A</i>
Maximum Filament Current	1.8 <i>A</i>
Filament Frequency Limit	DC or AC (Sine Wave) 0 ~ 20 kHz
Maximum Input Energy (Continuously)	50 W

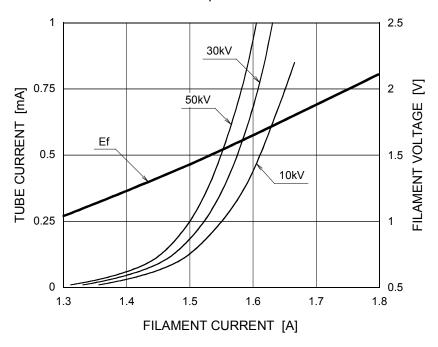
Environmental Limits

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

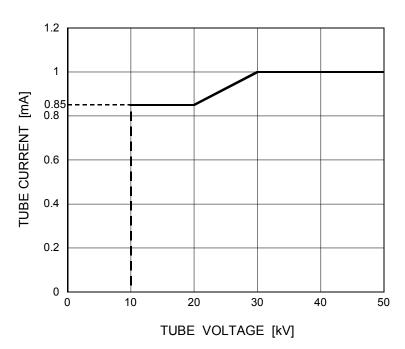
Constant Potential High-Voltage Generator

Nominal Focal Spot Value: 0.15 × 0.1



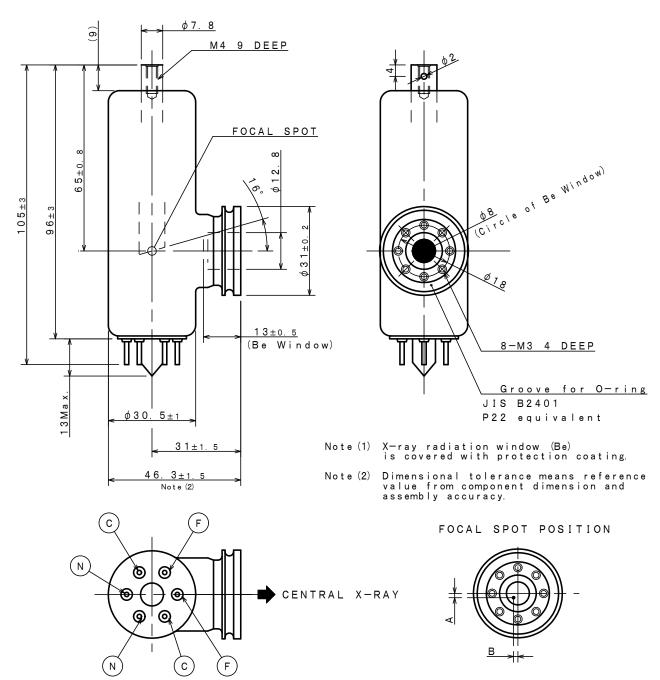
Note: This graph indicate typical characteristics.

Maximum Input (continuous)



Dimensional Outline

Unit: mm



CATHODE TERMINLS

 $\mathsf{F}:\mathsf{F}\:\mathsf{I}\:\mathsf{L}\:\mathsf{A}\:\mathsf{M}\:\mathsf{A}\:\mathsf{N}\:\mathsf{T}$

 ${\tt C}:{\tt CATHODE}$

Terminal "C" are connected mutually inside the tube.

N: NOT FOR USE

Central axis of outer shape of flange $(\phi 31 \pm 0.\ 2)$ is a standard.

- -1. 6mm≦A≦1. 6mm
- -1. 6mm≦B≦1. 6mm