

**INDUSTRIAL X-RAY TUBE
I-2118B**

X-ray Tube for Industrial Use

- ◆ The X-ray tube I-2118B, which has focus 1.0 × 0.7 is designed for non-destructive X-ray inspection.
- ◆ This tube can be used with Maximum 55 kV constant potential circuit of central grounded.

General Data

Electrical:

Circuit:

High Voltage Generator	Constant Potential High-Voltage Generator
Grounding	Central Grounded
Nominal X-ray Tube Voltage	55 kV
Nominal Focal Spot Value	(*) 1.0 x 0.7

(*): Permissible Value: Refer to IEC60336:1982.

Mechanical:

Dimensions	See dimensional Outline
Overall Length	96 mm
Maximum Diameter	φ 31 mm
Target:	
Angle	20 degrees
Material	Tungsten
Inherent Filtration	Glass 1.65 mm (Min. 1.45 mm)
X-ray Coverage (Angle)	See Dimensional Outline
Direction of Tube Axis	Minimum 20 degree
Right Angle Direction of Tube Axis	Minimum 70 degree
Weight (Approx.)	200 g
Insulating Medium	Insulation Oil
Cooling Method	Oil immersed (60°C Max.) and convection oil cooling.
Tube Holding	Holding the Anode shank with M5 screws

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

Maximum X-ray Tube Voltage	55 kV
Minimum X-ray Tube Voltage	20 kV
Maximum X-ray Tube Current	1.0 mA
Maximum Filament Current	2.1 A
Filament Frequency Limit	DC or AC (Sine Wave) 0 ~ 20 kHz
Nominal Anode Input Power (Continuously)	55 W

Environmental Limits

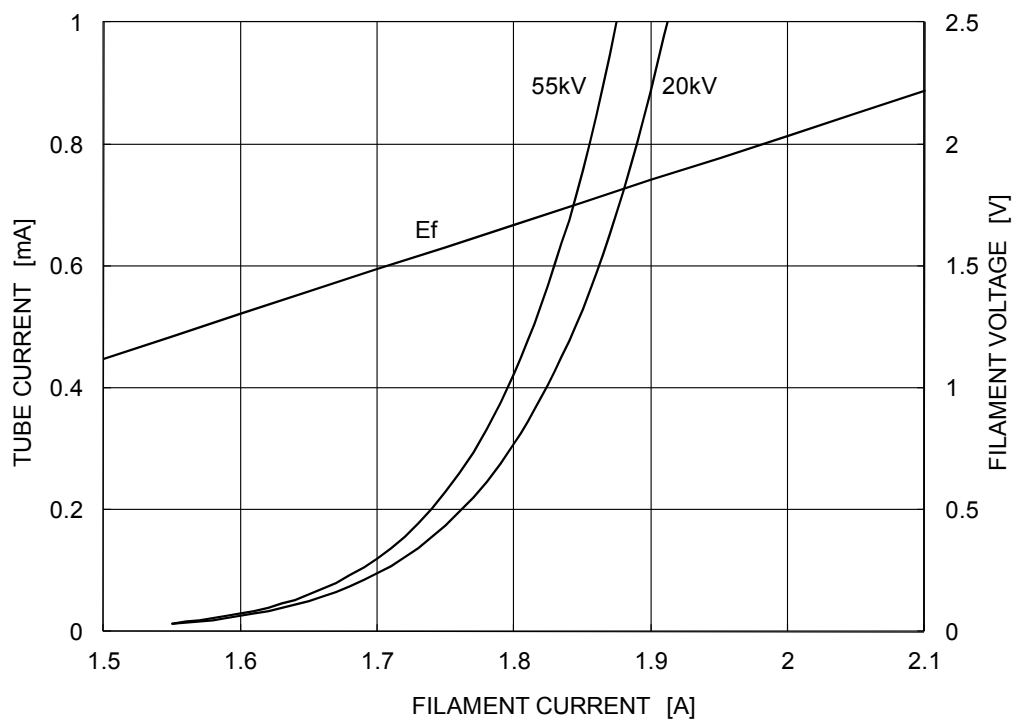
Operating Limits (in dielectric oil)

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

Shipping and Storage Limits:

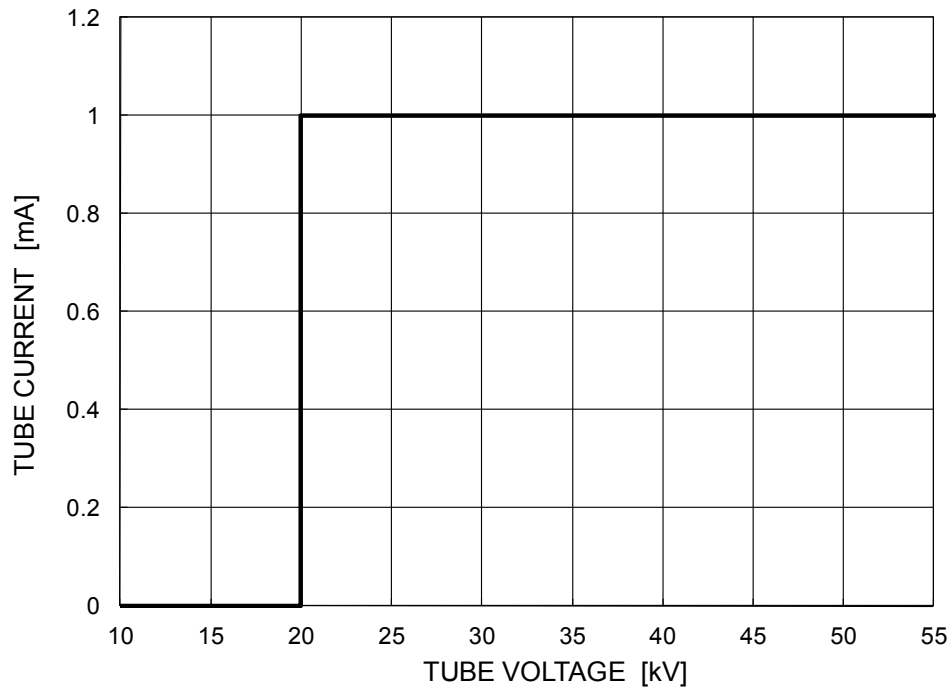
Temperature	-40 ~ 70 °C
Humidity	10 ~ 90 % (No condensation)
Atmospheric Pressure	50 ~ 106 kPa

Emission & Filament Characteristics



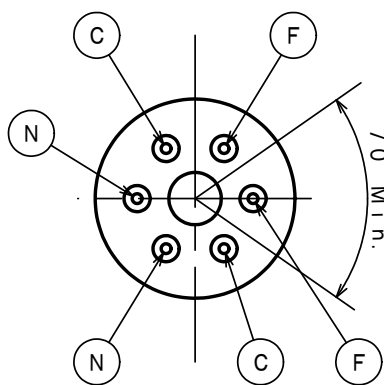
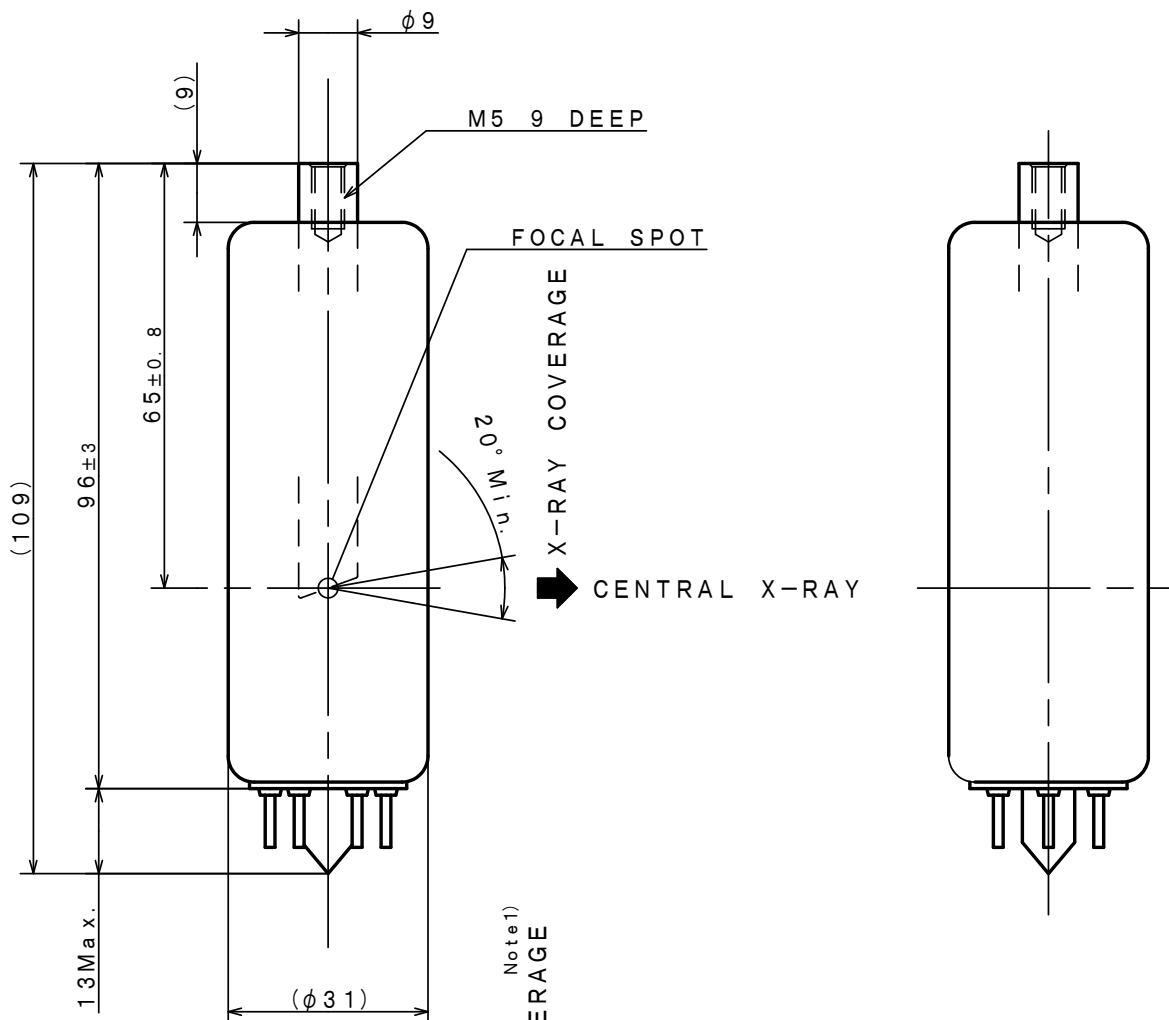
Note: This graph indicate typical characteristics.

Maximum Input (continuous)



Dimensional Outline

Unit: mm



Note1)
X-RAY COVERAGE

Note1)

X-ray coverage is determined by geometrical structure.

➔ CENTRAL X-RAY


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>.