

**INDUSTRIAL X-RAY TUBE
I-2115B****X-ray Tube for Industrial Use**

- ◆ The X-ray tube I-2115B, which has mini-focus 0.15 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 |

Mechanical:

Dimensions:

| | |
|------------------------|---------|
| Overall Length | 96 mm |
| Maximum Diameter | φ 33 mm |

Target:

| | |
|------------------------------|--|
| Angle | 10 degrees |
| Material | Tungsten |
| Inherent Filtration | Be 0.2 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 4-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 | 10 kV |
| Maximum X-ray Tube Current | 1.5 mA |
| Maximum Filament Current | 2.1 A |
| Filament Frequency Limit | DC or AC (Sine Wave) 0 ~ 20 kHz |
| Maximum Input Energy (Continuously) | 75 W |

Environmental Limits

Operating Limits (in dielectric oil):

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

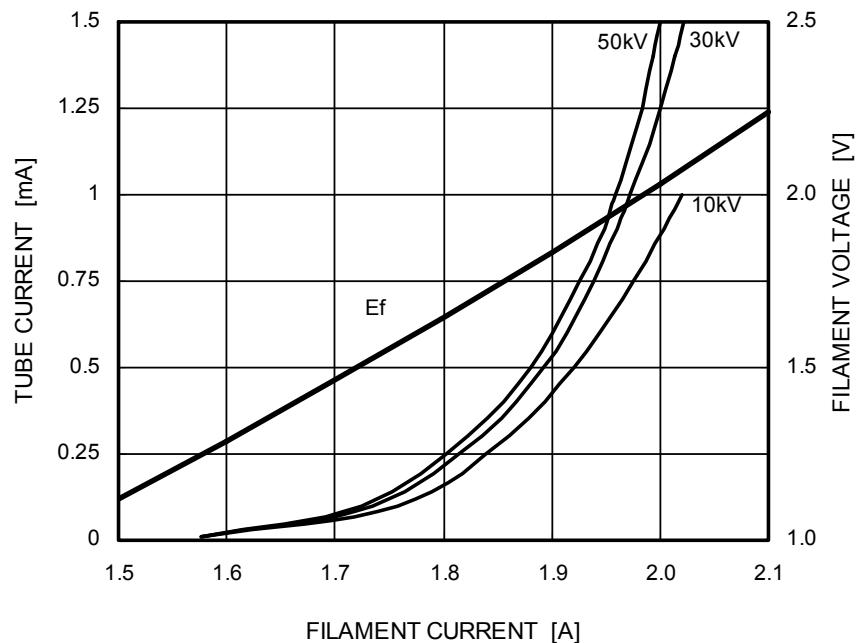
Shipping and Storage Limits:

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

Emission & Filament Characteristics

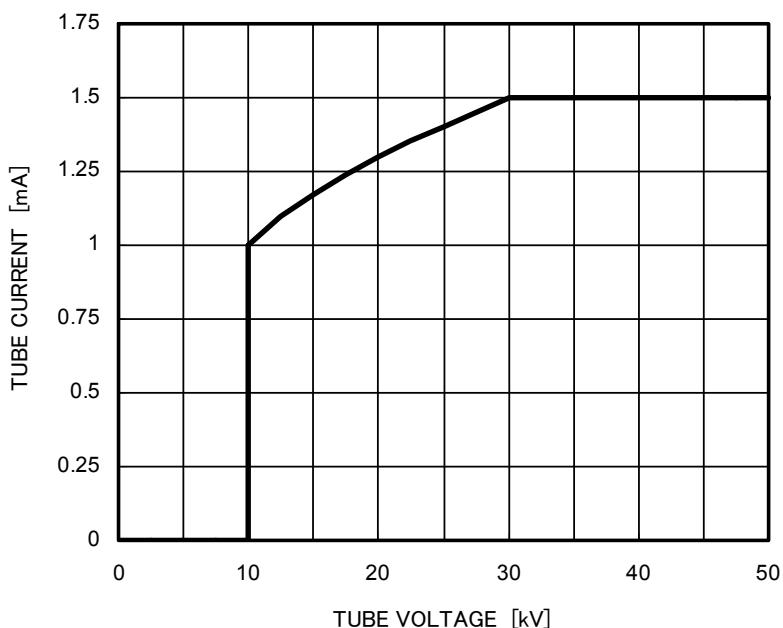
Constant Potential High-Voltage Generator

Nominal Focal Spot Value: 0.15



Note: This graph indicate typical characteristics.

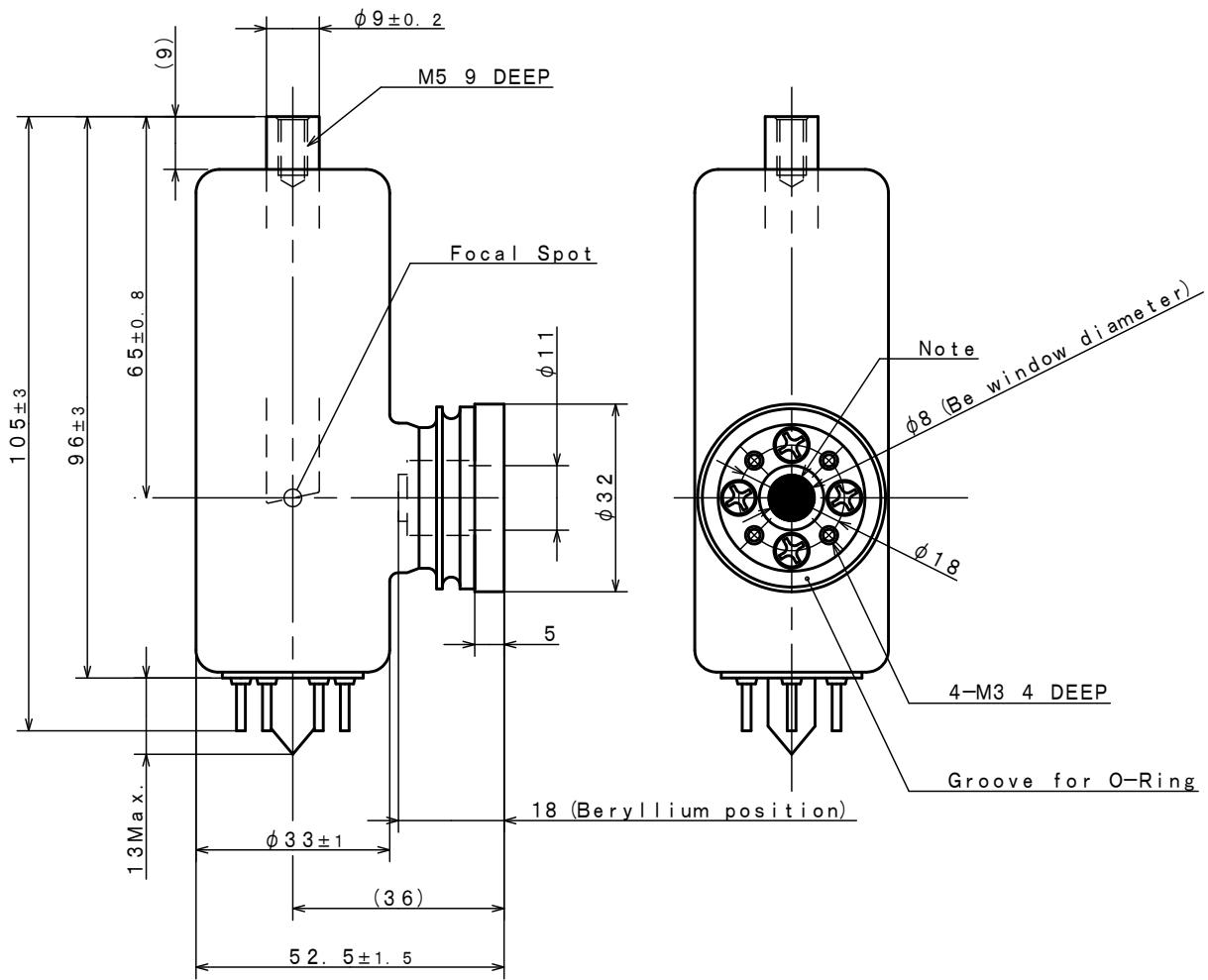
Maximum Input (continuous)



I-2115B

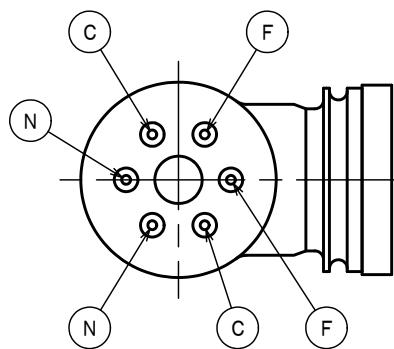
Dimensional Outline

Unit: mm



Note:

X-ray radiation window (Be)
is coated with protective film



CENTRAL X-RAY

CATHODE TERMINALS

F: FILAMENT

C: CATHODE

Terminal "C" are connected
mutually inside the tube.

N: DO NOT USE

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The head office of Toshiba Electron Tubes & Devices Co., Ltd. has been certified to meet all the requirements of Environmental Management System ISO14001.

Toshiba 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>.