

**INDUSTRIAL X-RAY TUBE
I-221**

X-ray Tube for Industrial Use

- ◆ The X-ray tube I-221, which has focus 1.0, is designed for non destructive X-ray inspection.
- ◆ This tube can be used with Max. 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
Operating Tube Voltage	15 ~ 50 kV
Nominal Focal Spot Value	1.0

Mechanical:

Dimensions	See dimensional Outline
Overall Length	176 mm
Maximum Diameter	40 mm
Target:	
Angle	20 degrees
Material	Tungsten
Inherent Filtration	Be 0.5 mm
X-ray Coverage	φ 320 mm at 600 mm distant from the focal spot
Weight (Approx.)	400 g
Insulating Medium	Insulation Oil
Cooling Method	Oil immersed (60°C Max.) and convection oil cooling.
Tube Holding	Holding the mounting flange with 6-M4 screws

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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	15 kV
Maximum X-ray Tube Current	5 mA
Maximum Filament Current	3.7 A
Filament Frequency Limit	DC or AC (Sine Wave) 0 ~ 20 kHz
Maximum Input Energy (Continuously)	150 W

Environmental Limits

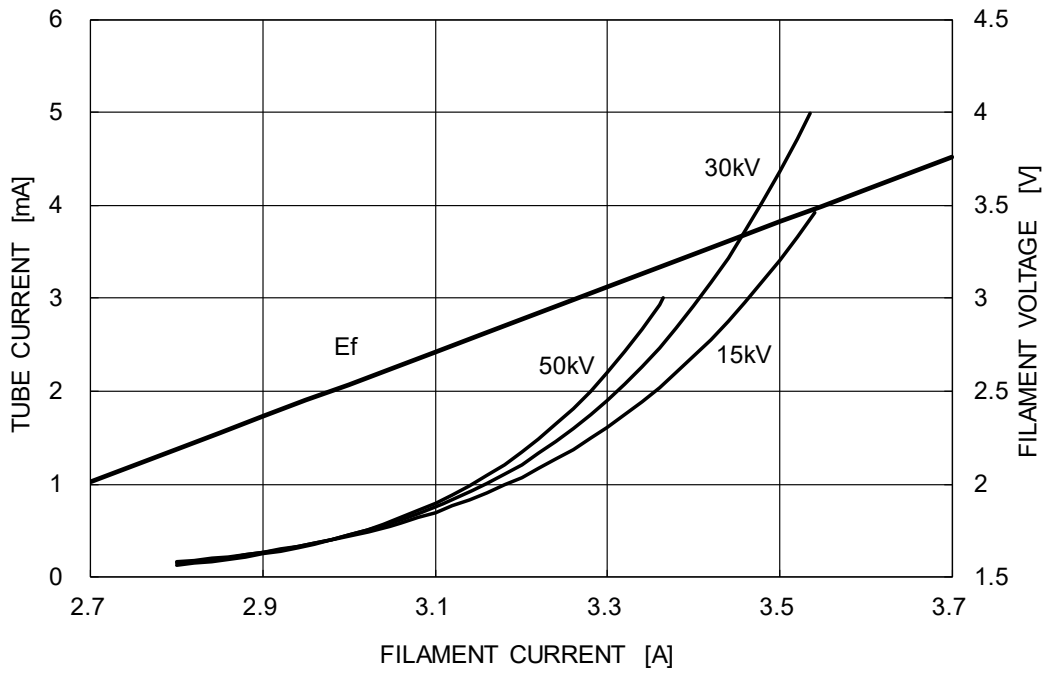
Operating Limits (in dielectric oil):

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

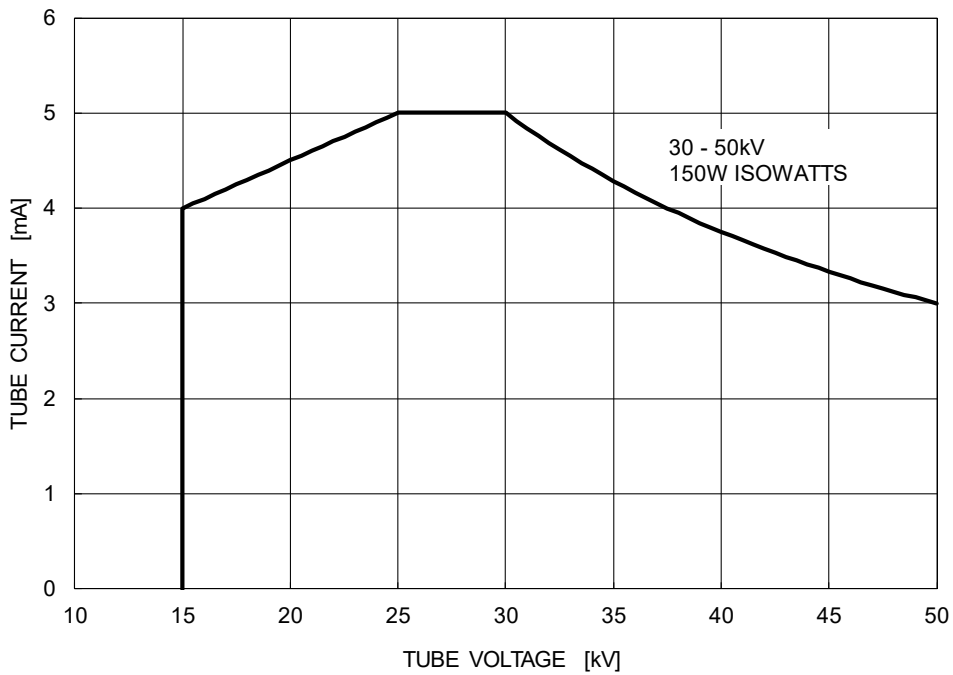
Shipping and Storage Limits:

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

Emission & Filament Characteristics



Maximum Input (continuous)



Dimensional Outline

Unit: mm

