

**ANALIX™
A-140-Cu**

- ◆ The ANALIX A-140-Cu Series, a water-cooled, grounded anode X-ray tube designed for X-ray diffractometry.
- ◆ The maximum input power 2.2 kW.
- ◆ Two Beryllium windows hermetically sealed to metal body.
- ◆ Standard target materials Cu.

Electrical:

Circuit:

High Voltage Generator	Constant Potential High-Voltage Generator
Grounding	Anode Grounded
Nominal X-ray Tube Voltage	60 kV
Focal Spot	0.4 × 12 mm

Mechanical:

Dimensions	See Dimensional Outline
Overall Length	188 ± 5 mm
Diameter of Maximum Part	φ 67.8 ± 0.05 mm
Target:	
Angle	Zero Degree
Material	Cu
Inherent Filtration	0.3 mm Beryllium
X-ray Beam Angle	Approx. 6°
X-ray Port	2 Directions
Weight	Approx. 2.1 kg
Cooling:	
Method	Water Cooled
Quantity of Water	Minimum 3.5 ℓ/min
Temperature	Less than 35 °C
Maximum Water Pressure	490 kPa
Pressure Drop	Approx. 98 kPa

★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	60 kV
Minimum X-ray Tube Voltage	10 kV
Maximum X-ray Tube Current	50 mA
Maximum Filament Current	3.8 A
Filament Frequency Limits	20 kHz or Less
Maximum Input	2.2 kW

Environmental Limits

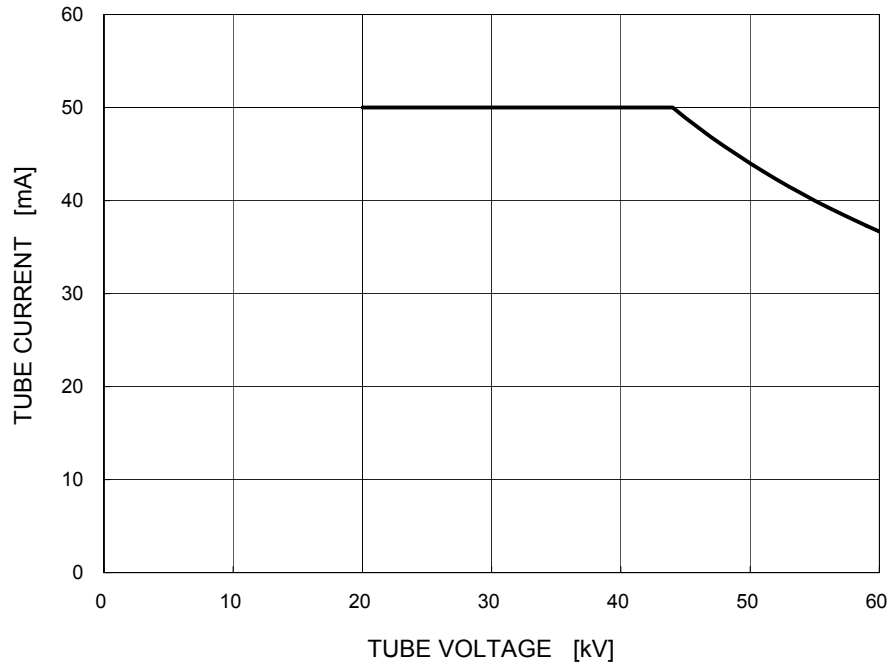
Operating Limits:

Temperature	0 ~ 40 °C
Humidity	85 % or Less (No condensation)
Atmospheric Pressure	70 ~ 106 kPa
Vibration and Shock	Use it in environment without vibration and a shock

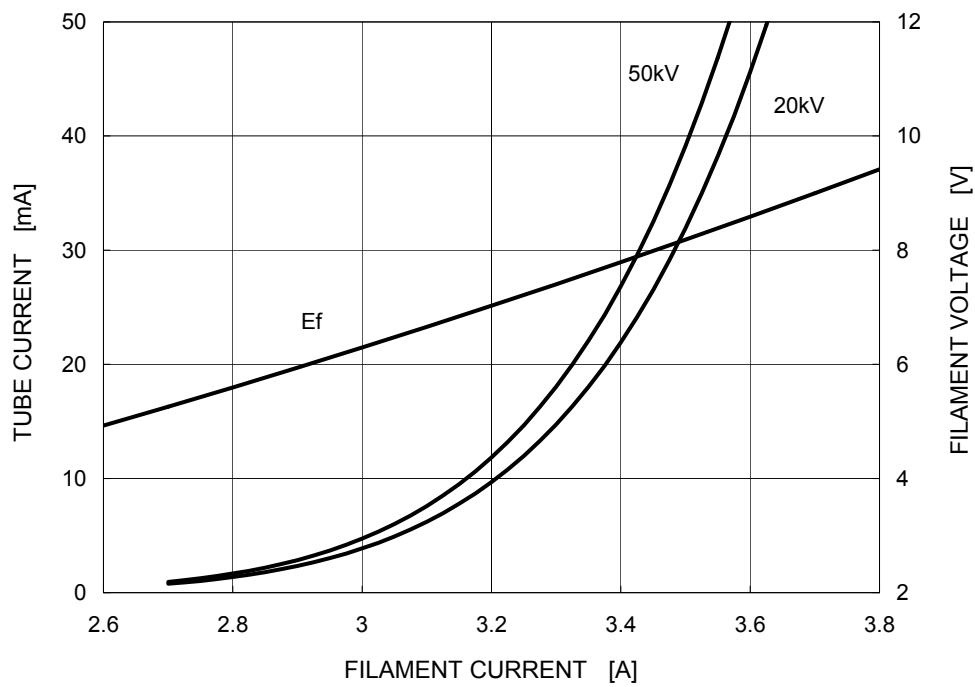
Shipping and Storage Limits:

Temperature	-20 ~ 70 °C
Humidity	85 % or Less (No condensation)
Atmospheric Pressure	50 ~ 106 kPa
Vibration	4.9 m/s ² or Less
Shock	98 m/s ² or Less

Maximum Rating Charts (Absolute Maximum Rating Charts)



Tube Current & Filament Characteristics



For Reference Only

Dimensional Outline

Unit: mm

