

X-RAY TUBE
D-068R
D-068SBR

Stationary Anode X-ray Tube

- ◆ Especially designed for mobile type surgical X-ray TV apparatus.
- ◆ These tubes have focus 0.6, and are available for maximum tube voltage 110 kV.
- ◆ Provided with an insulation cylinder and lead cylinder. (D-068SBR)

General Data

Application Diagnostic Radiography for Mobile C-arm

Electrical:

Circuit:

High Voltage Generator Constant potential high-voltage generator

Grounding Center grounded

Nominal X-ray Tube Voltage 110 kV

Nominal Focal Spot Value 0.6

Nominal Anode Input Power 2020 W

Nominal Radiographic Anode Input Power 2100 W

Exposure Duty Cycle 1:60 or more

(Exposure time: Interval time)

Mechanical:

Dimensions:

Overall Length See dimensional outline

Maximum Diameter See dimensional outline

Target:

Anode Angle 9 degrees

Material Tungsten

Inherent Filtration At least 0.8 mm Al equivalent at 50 kV

X-ray Coverage ϕ 245 mm at SID 970 mm

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Weight:

D-068R Approx. 800 g
 D-068SBR Approx. 1300 g

Cooling Method Oil immersed and convection oil cooling.

Tube Holding:

D-068R Holding the glass envelope of the anode end and cathode end
 or the screw of the anode shank (Radiator).

D-068SBR Holding the insulation cylinder or the lead cylinder.

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

Maximum X-ray Tube Voltage 110 kV
 Between Anode (or Cathode) and Ground 55 kV
 Minimum X-ray Tube Voltage 40 kV
 Maximum X-ray Tube Current 30 mA

Filament Characteristics:

Maximum Filament Current 3.7 A

Filament Frequency Limits DC or AC (Sine Wave) 20 kHz

Thermal Characteristics:

Anode Heat Content (Oil Temperature 25°C)..... 60 kJ

Maximum Anode Heat Cooling (Oil Temperature 25°C)..... 600 W

Maximum Fluoroscopic Duration 600 W - 20 minutes

Environmental Limits

Operating Limits (in dielectric oil):

Oil Temperature 10 ~ 60 °C

Oil pressure 70 ~ 140 kPa

Shipping and Storage Limits:

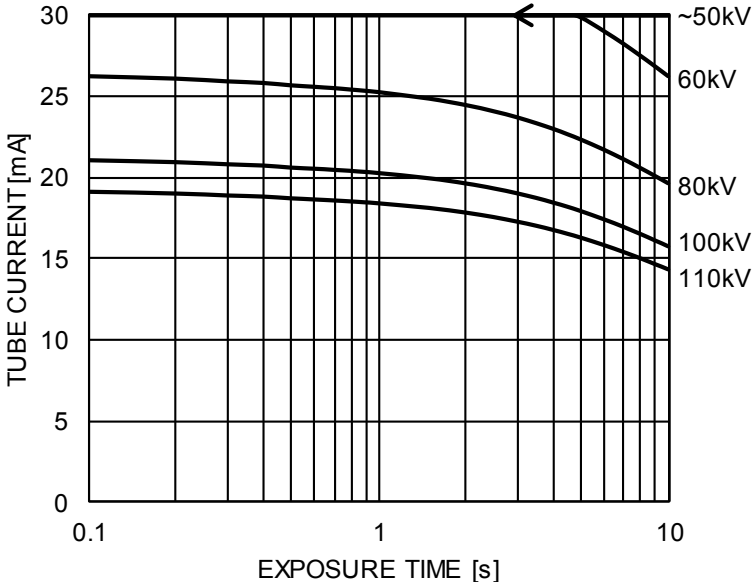
Temperature -40 ~ 70 °C

Humidity 10 ~ 90 %
 (No condensation)

Atmospheric Pressure 50 ~ 106 kPa

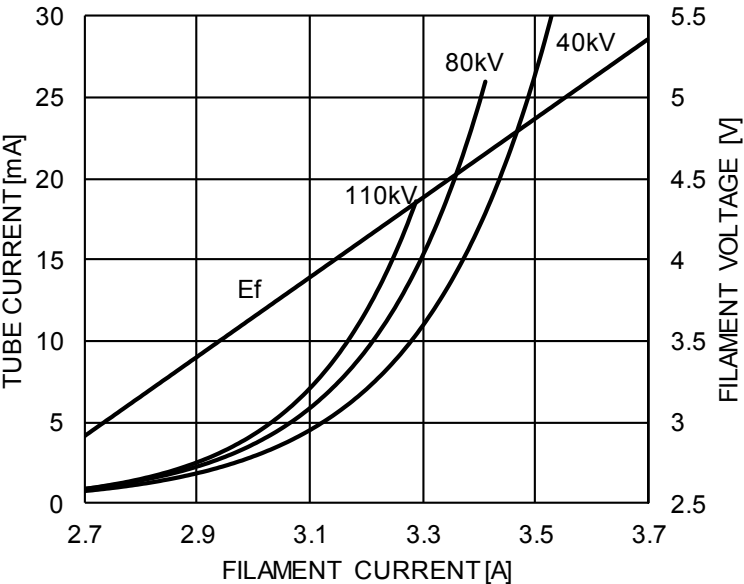
Maximum Rating Charts (Absolute maximum rating charts)

Constant potential high-voltage generator
Nominal Focal Spot Value: 0.6



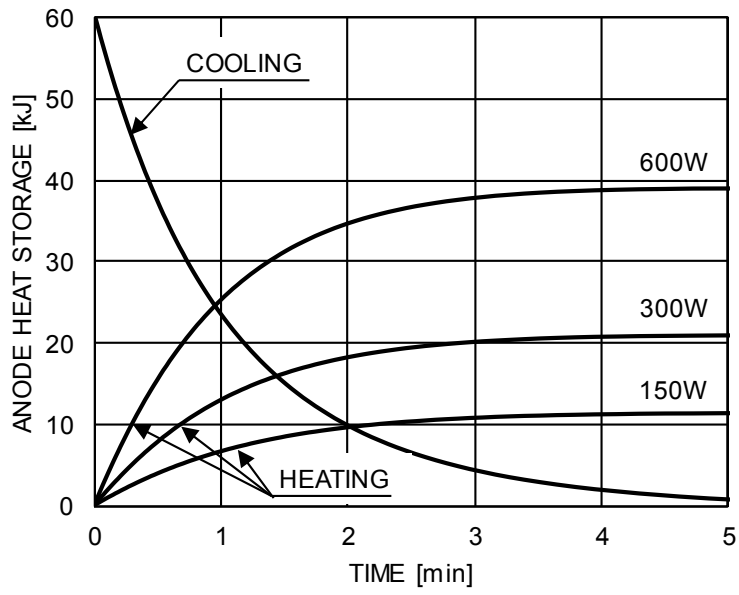
Emission & Filament Characteristics

Constant potential high-voltage generator
Nominal Focal Spot Value: 0.6



This graph indicates typical characteristics.

Anode Heating / Cooling Curve



Dimensional Outline of D-068R

Unit: mm

