X-RAY TUBE D-059SBR

Stationary Anode X-ray Tube

- Especially designed for dental radiography unit.
- Provided with an insulation cylinder and lead cylinder.
- This tube has 0.5 focus, and is available for maximum tube voltage 120 kV.
- Installed in the same enclosure with the high voltage transformer.

General Data

Electrical:

| Constant Potential High-Voltage Generator |
|-------------------------------------------|
| Center-grounded |
| 120 kV |
| |
| |
| |
| - |

Mechanical:

| Dimensions: | |
|------------------------|----------------------------------------------------|
| Overall Length | See dimensional outline |
| Maximum Diameter | See dimensional outline |
| Target: | |
| Anode Angle | 10 degrees |
| Material | Tungsten |
| Inherent Filtration | At least 0.8 mm Al equivalent at 50 kV |
| , , | 160 × 360 mm at SID 550 mm |
| Weight ····· | Approx. 1320 g |
| Cooling Method ····· O | il immersed (60°C Max.) and convection oil cooling |
| Tube Holding | ······ Holding the insulation cylinder |

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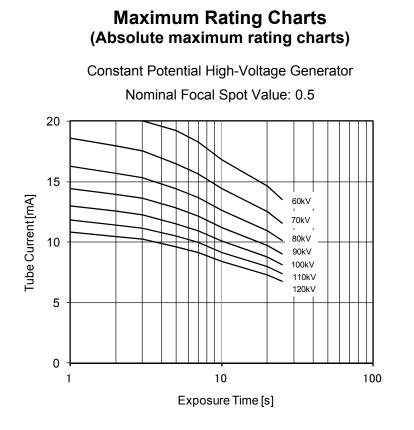
[★] The information contained herein may be changed without prior notice. It is therefore, advisable to contact to CETD before processing with the design of equipment incorporating this product.

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

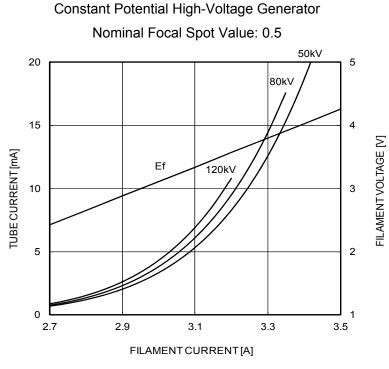
| Maximum X-ray Tube Voltage 120 k |
|-----------------------------------------------------------|
| Between Anode (or Cathode) and Ground |
| Minimum X-ray Tube Voltage |
| Maximum X-ray Tube Current 20.0 mA |
| (See rating charts |
| Maximum Filament Current 3.5 A |
| Filament Voltage: |
| At maximum filament current (3.5 A) 3.4 ~ 4.9 \ |
| Filament Frequency Limits DC or AC (Sine Wave) 0 ~ 20 kHz |
| Thermal Characteristics: |
| Anode Heat Content |
| Maximum Anode Heat Dissipation 250 W |
| Maximum Exposure Time 25 s |

Environmental Limits

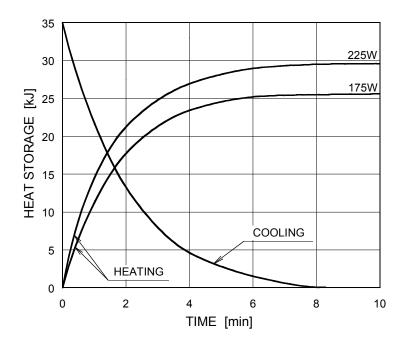
| Operating Limits (in dielectric oil): | |
|---------------------------------------|-------------------|
| Oil Temperature | |
| | |
| Shipping and Storage Limits: | |
| Temperature | -40 ~ 70 °C |
| Humidity | |
| | (No condensation) |
| Atmospheric Pressure | 50 ~ 106 kPa |



Emission & Filament Characteristics



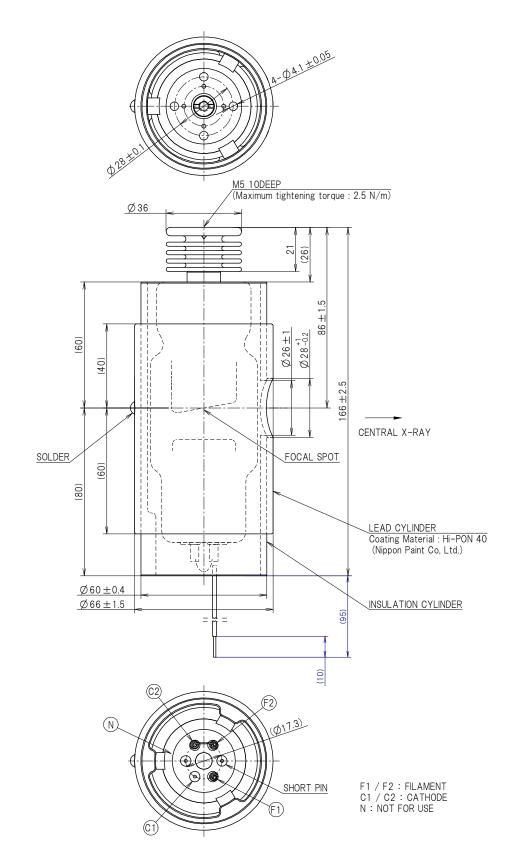
This graph indicates typical characteristics.



Anode Heating / Cooling Curve

Dimensional Outline of D-059SBR

Unit: mm



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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. <u>https://etd.canon/eng/company/quality.htm</u>.