



Mox140G Fan Beam
(TUB00205)

Applications

X-ray Imaging

- Security
- Backscatter Imaging
- Non-Destructive Testing

X-ray Fluorescence

- Benchtop XRF

Recommendations:

CAUTION—Initial cold warm-up requires a 3-second ramp to full output.

Operating Temperature—Moxtek recommends a warm-up period of 10 minutes before running below 0°C.

Moxtek® manufactures low-power miniature X-ray sources for a variety of applications including handheld X-ray fluorescence (XRF), security, NDT and benchtop instruments. Moxtek X-ray sources are small, lightweight and can be packaged into customer enclosures. Mox140G is capable of running at a 140kV maximum and is ideally configured for backscatter imaging.

Specifications

<i>Tube type:</i>	Metal-ceramic
<i>Operating Temperature°:</i>	-10°C to +50°C
<i>Storage Temperature°:</i>	-30°C to +65°C
<i>Cooling:</i>	Forced Air (As needed)
<i>Weight:</i>	1.6 kg
<i>Available Targets:</i>	Tungsten
<i>HV Polarity:</i>	Bipolar
<i>Anode:</i>	Transmission Window
<i>High Voltage Potential:</i>	140kV (Maximum)
<i>Maximum Exposure:</i>	30 sec
<i>Maximum Power:</i>	7W (50% Duty Cycle)
<i>Maximum Average Power:</i>	3.5W
<i>Radiation Leakage:</i>	< 1.0 mR/hr @ 5 cm

Source Characteristics

<i>Focal Spot Size:</i>	1.0 mm x 1.2 mm FWHM
<i>Focal Spot to Object:</i>	14.1 mm
<i>Window:</i>	0.0254 mm Tungsten
<i>Input Power:</i>	15W
<i>Signal Input Voltage:</i>	3.3V ±0.1, 5.0V ±0.1
<i>Control:</i>	Digital I2C
<i>Internal Collimator:</i>	Fan Angle 60°
<i>RoHS Compliant:</i>	RoHS 3
<i>Standard Warranty:</i>	1-year or 2000 operating hours



Moxtek, Inc.
452 West 1260 North
Orem, UT 84057

☎ 801.225.0930
moxtek.com

⚠ WARNING

X-rays are emitted from the sides and ends of this product when energized. Moxtek takes actions to reduce the exposure rate from X-rays emitted from the sides through the use of various shielding agents inherent to this product design. It is the buyer's responsibility to ensure adequate protection is provided in the testing and manufacturing of the final product and that users are adequately shielded from incidental exposure.