Mox140G™
X-ray Sources Datasheet

Mox140G Fan Beam
(TUB00205)

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.

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.

Specifications

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

Source Characteristics

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

MOXTEK®

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

P 801.225.0930
moxtek.com