Mox140G low-power miniature x-ray source

Mox140G fan beam

Mox140G cone beam

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

Specifications	
Tube type	Metal-ceramic
Operating temperature	-10 to +50 °C
Storage temperature	-30 to +65 °C
Cooling	Forced air (as needed)
Weight	1.9 kg
Available targets	Tungsten
HV Polarity	Bi Polar
Anode	Transmission window
High voltage potential	140 kV (max)
Maximum exposure	30 sec at 7 W
Maximum power	7 W (max)
Maximum average power	3.5 W
Radiation leakage	< 1.0 mR/hr @ 5 cm

Source characteristics	
Focal spot size	Typical 0.5 mm
Focal spot size to window	14.4 mm
Window	0.001 inch Tungsten
Input power	15 W
Control	Digital I2C
Internal collimator	Maximum solid cone or fan angle 60°
Standard warranty	One year with typical usage

Applications

X-ray imaging

- Security
- Backscatter imaging
- Non-destructive testing
- C-arm fluoroscopy
- Radiography
- Medical C-arms

X-Ray fluorescence

- Benchtop XRF

Notes

- Operating temperature: Moxtek recommends a warm up period of 10 minutes before running below 0 °C
- Radiation leakage: Moxtek takes every precaution with radiation leakage but it is up to the end user to make sure there is adequate protection for your needs. Consult with an application engineer for your specific application.

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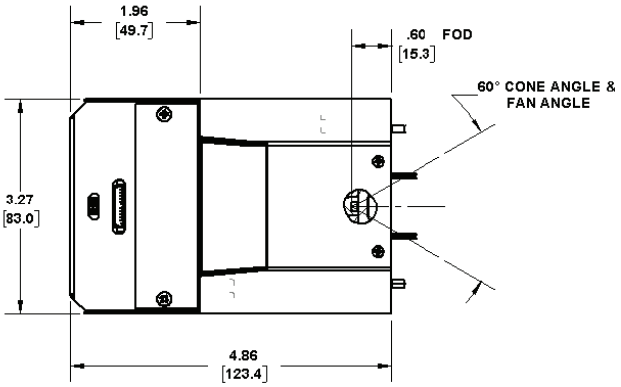
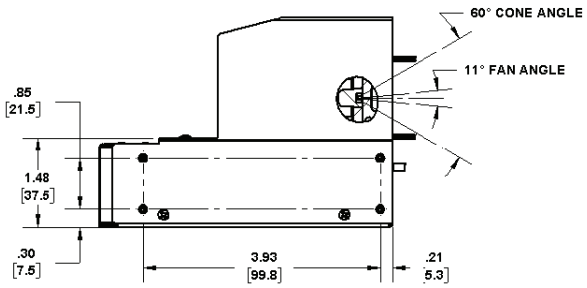
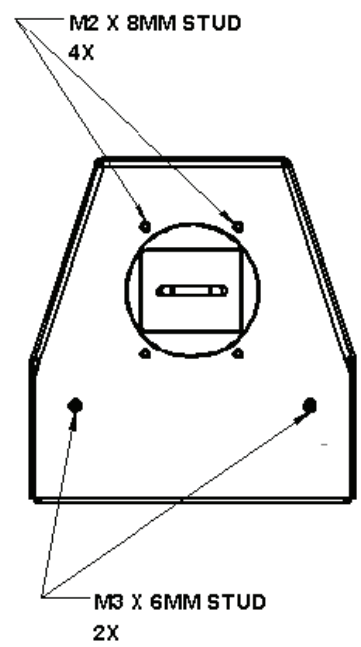
Mox140G low-power miniature x-ray source

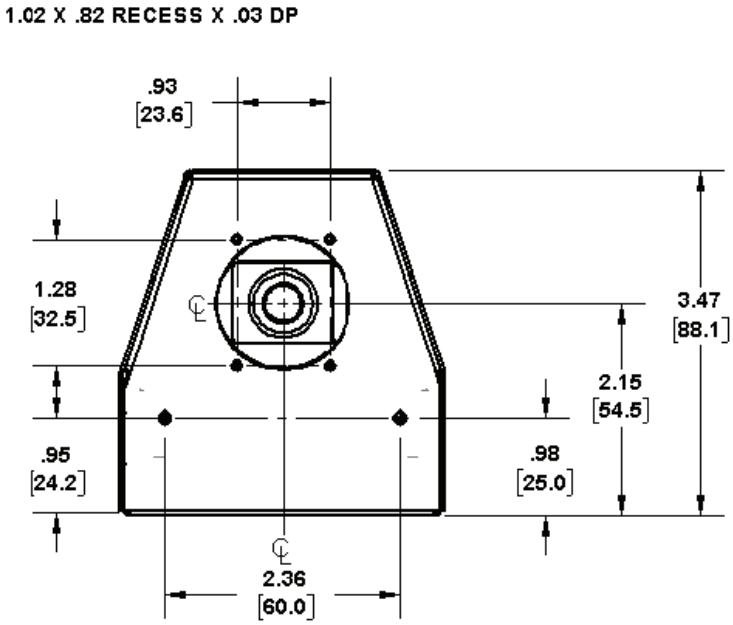
Mox140G™ Mechanical drawings







FAN BEAM COLLIMATER



CONE BEAM COLLIMATER

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