

Oxford Instruments glass X-ray tubes are recognized for their performance and long life.

High flux and spot size stability make our X-ray tubes an ideal solution for demanding applications, such as those requiring continuous operation. The 90507 is uniquely designed with a very small isostatically focused spot for high resolution applications, such as mini C-Arm fluoroscopy. The robust electron gun assembly has been constructed for optimal use in integrated X-ray sources, where heat dissipation is an issue. Long tube life is achieved by ultra-high vacuum maintained with the Oxford Instruments unique Pin Flash getter. This tube operates in bi-polar mode.



Benefits

- Exceptional image quality
- Stable X-ray output delivers high precision measurements
- Small, stable spot delivers distortion-free measurements
- RoHS compliant design

Applications

- CT imaging for life sciences and industrial inspection
- Densitometry
- Thickness gauging
- Phase contrast imaging
- Medical imaging

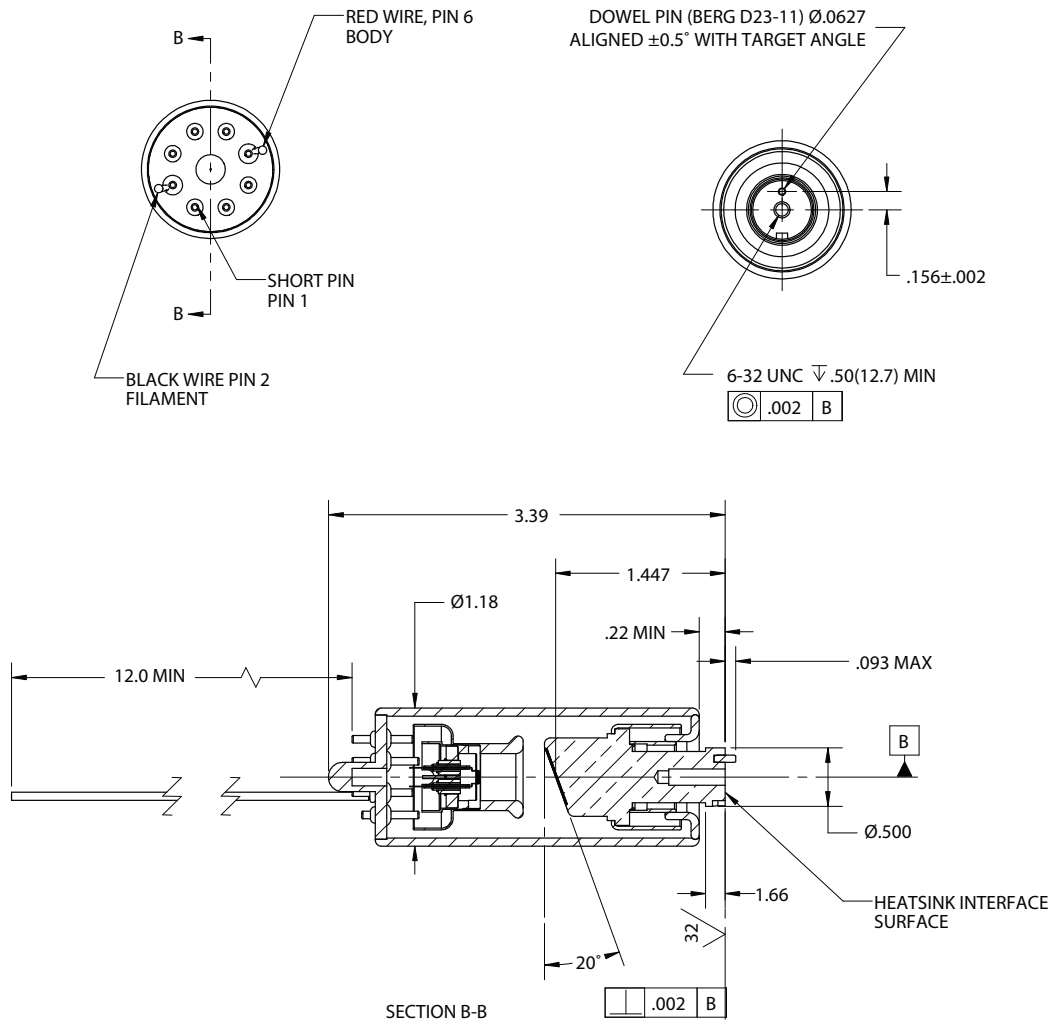
Specifications	
Operating voltage range:	40-80kV (bi-polar operation: -40kV cathode, +40kV anode)
Maximum Power:	40W continuous
Maximum beam current:	0.5mA
Maximum filament current:	1.7A
Filament voltage:	2.0V (nominal)
Focus to Object Distance (FOD):	14.2mm (0.56") (nominal)
Window material and thickness:	Glass—1.40mm ± 0.15
Target material:	W
Target angle:	20°
Maximum oil temperature:	80°C
Cooling method:	Oil
Weight:	114g (0.25 lbs)
Storage conditions:	-10°C to 55°C
	Barometric Pressure: 50-106kPa; Humidity: 10-90% (no condensation)



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1000 Series - 90507 Glass X-ray Tube



Notes

1. Dimensions are in inches.
2. This X-ray tube is designed to operate in an oil filled high voltage enclosure. Do not allow the oil to exceed 80°C. Proper operation of the X-ray tube requires cooling oil to circulate freely around the X-ray tube envelope.
3. This X-ray tube produces X-rays in all directions. As such, it must only be operated in a radiation-shielded enclosure.
4. Tubes to be shipped with two teflon-coated copper wire leads, 1 8 AWG X 12.0 MIN, soldered to pins #6 and #2.

visit www.oxford-instruments.com/xt or xray-sales@oxinst.com for more information

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