



Series 6011

Packaged X-Ray Tubes



Oxford Instruments' Series 6011 is the newest iteration of our highly proven side window X-ray tube. Currently in use in many industrial applications, including PCB registration and drilling. The 6011 series features a high performance electron gun, enabling a small focal spot, ideally suited for imaging applications. The X-ray tube is enclosed in a stainless steel, lead-lined package providing X-ray shielding. The package is filled with an Oxford Instruments designed cooling oil maximizing heat dissipation.

The stainless steel package includes a high voltage well connector, for which Oxford has designed a compatible high voltage cable. A Triax connector is provided for the filament supply. We recommend purchasing a compatible power supply and cable set from Oxford Instruments to ensure proper calibration. The tube is to be operated in a positive anode mode with the cathode grounded. The standard exit window is 0.005 inch Beryllium and is available with epoxy coating for added protection against high humidity or corrosive environments.

6011 Specifications

Feature	Value
Max Anode Current	1.0 mA
Max Anode Voltage	60 kV
Maximum Power	50 W continuous
Nominal Filament Voltage	2.0 V @ 50 kV, 1 mA
Max Filament Current	1.7 A
Stability	0.2% over 4 hours
Focal Spot Size (Nominal*)	70 µm
Anode Material	W (other materials available)
Be Window Thickness	125 µm
Approximate Weight	6.2 lbs (2823 g)
Dimensions	7.25" L x 2.75" Dia.
Cooling Method	Forced air @ 150 CFM
Cone Angle	18°

All Oxford Instrument X-Ray tubes are warranted against manufacture defects for one year.

Packaging provides X-ray shielding to .25 mR/hr @ 2 inches.*

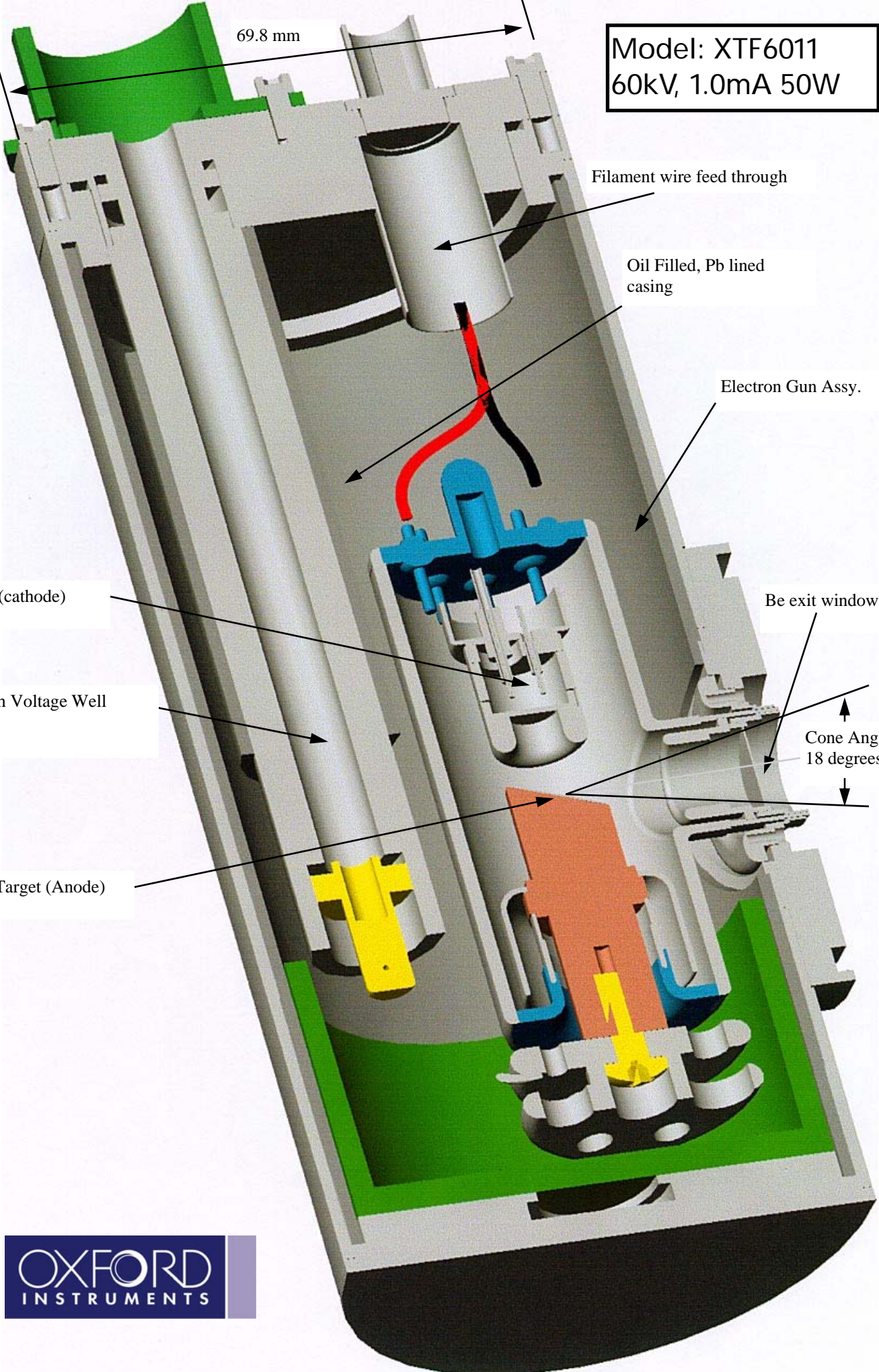
*Except at high voltage connection.

Maximum package temperature not to exceed 55 degrees Celsius.

*nominal per IEC336, JISZ47045, NEMA XR5



Model: XTF6011
60kV, 1.0mA 50W



69.8 mm

Filament wire feed through

Oil Filled, Pb lined casing

Electron Gun Assy.

Filament (cathode)

Be exit window

High Voltage Well

Cone Angle
18 degrees

Target (Anode)