

HPC150
(TUB00183, TUB00184)



Applications

- High power XRF
- Scrap metal sorting XRF
- Thickness gaging
- Portable medical imaging
- Food inspection
- NDT

Features

- Anode grounded
- Compact air-cooled design
- Small focal spot for imaging or XRF
- Various target materials available for XRF

Benefits

- Close coupling to detector
- Small for portable applications
- Integrated radiation shielding
- Vacuum seal surface for easy integration

The Moxtek® HPC150 are engineered for both X-ray fluorescence (XRF) and imaging applications. The forced air design guarantees efficient cooling performance across extensive operating conditions. These tubes come equipped with additional features, such as radiation shielding and vacuum sealing at the base. The tube's robust construction delivers quality and dependability.

Mechanical Specifications

Tube type: Metal-ceramic

Operating Temperature: +10° to +50° C

Storage Temperature: -30° to +80° C

Cooling: Filtered Air 1400 Lpm (STP)

Weight: 2.5 kg (w/o cable)

Available Targets: W

X-ray Tube Characteristics

Anode Type: Stationary Reflection

Cone Angle: 45°

HV Polarity: Grounded anode

Tube Voltage Operating Range: 10kV to 60kV

Beam Current: 2 mA-5 mA (long-life performance)

Continuous Power: 25-150W

Focal Spot: <1.0 mm x 1.0mm

Window: 500 µm Beryllium

Fan Operating Voltage: 12V, 24V (two models)

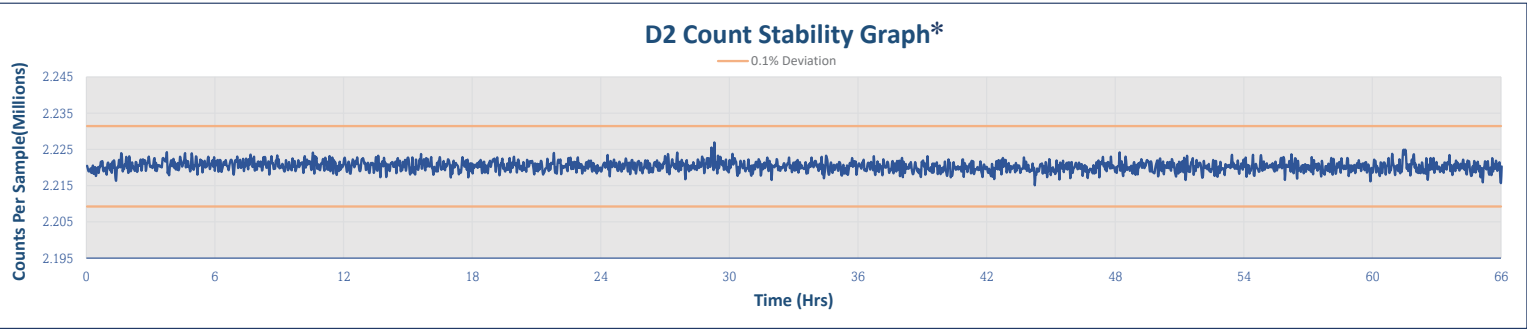
High Voltage Power Supply: VJ X-ray HVG060 SE150P712
Spellman DXM75N600X 5860

Connector Type: CA-11 typical (75kV max)

RoHS Compliant: RoHS 3

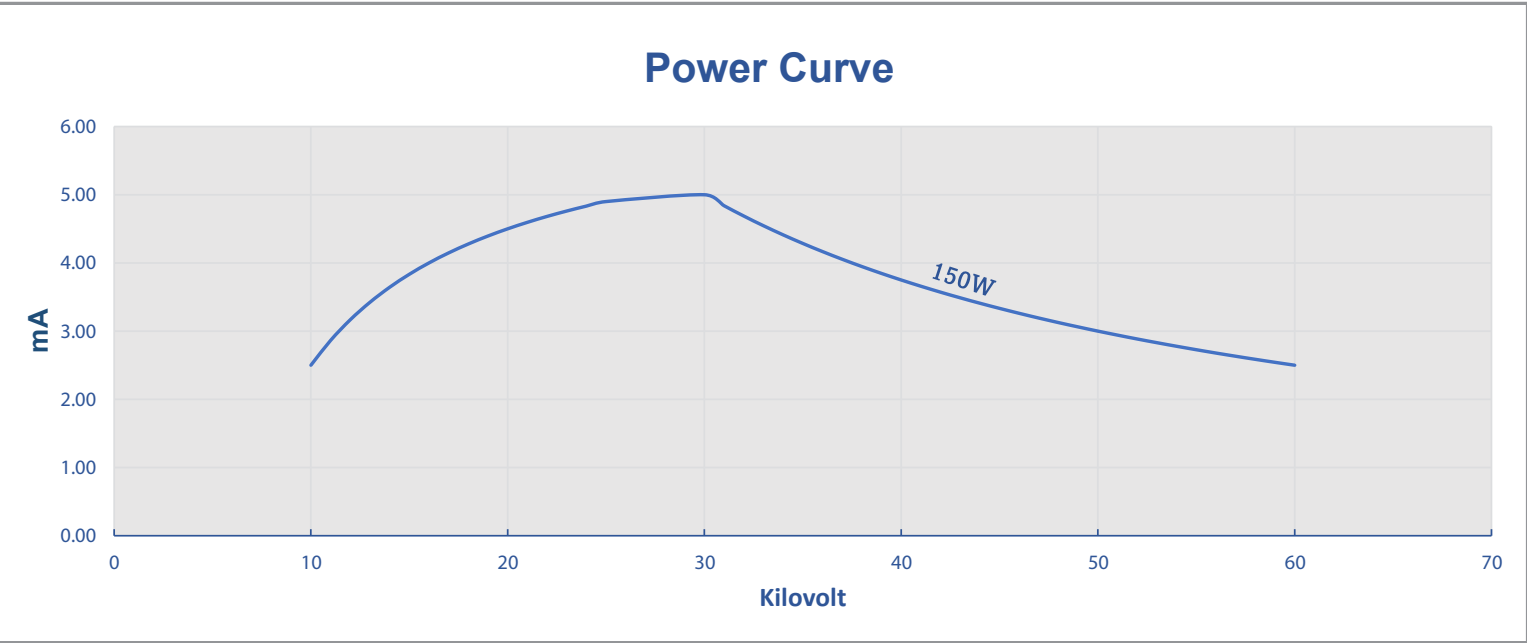
Standard Warranty: 1 year or 2000 operating hours

X-ray Characteristics



*X-ray flux stability at 50kV and 150 Watts over 66 hrs RSD of 0.07%

Tube Current and Power Operational Range



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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. This product contains a beryllium window. The inhalation of fumes or dust from beryllium metal (or its compounds) are hazardous. Corrosion may occur on the beryllium window during use, these should not be scraped off, machined, or removed. Disposal of the tube unit should conform to federal, state, and local regulations governing beryllium.