X-ray Sources



TUB00083

Applications

Materials Characterization and Identification (XRF)

- Metal and alloy sorting
- Mining and geology
- Environmental analysis
- Lead in paint
- Regulatory (RoHS/WEEE)
- Art and archeometry
- R&D
- **X-ray Imaging**
- Medical R&D, small animal imaging
- Security
- Radiographic inspection

50kV MAGNUM[®] X-ray Source Datasheet

The Moxtek[®] 50kV X-ray Source is a small, low power device used for a variety of applications including handheld, portable, and bench top instrumentation.

Features	Benefits
Small, compact design	Close coupling of detector/ source
Lightweight	Portable, easy to integrate
Stable output	High precision of measurements, low detection limits
Low power consumption	Long battery life
Low spectral contamination	Clean spectrum, high precision of analysis
High x-ray output	Short sampling time

Mechanical Specifications

Tube type:Metal-ceramicCathode Type:Tungsten FilamentOperating Temperature°:-10° to +50° CStorage Temperature°:-25° to +85° CCooling:ConductionWeight:~350gAvailable Targets:Ag, W, RhHV Polarity:Grounded anode

Source Characteristics

High Voltage Potential: 4 to 50kV
Beam Current: 5 to 200μA
Maximum Power: 4 watts
Focal Spot Size: 500 to 800μm FWHM (typical)
Window: Beryllium, 0.25mm thick or 0.125
Input Power: 6-12 VDC
Focus-to-Object Distance: 2.2mm
Standard Warranty: 1 year or 2000 operating hours



TUB00082 Mechanical Drawing



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