

50kV MAGNUM®

Monoblock end-window sources



TUB00082/00083 50 kV MAGNUM® Monoblock end-window

Applications

- X-ray imaging (CT), fluorescence (XRF) and diffraction (XRD)
- Metal and alloy sorting
- Material structure properties
- Mining and geology
- Environmental analysis
- Lead in paint
- Regulatory (RoHs and WEEE)
- Art and archaeometry
- Small animal imaging
- Security and radiographic inspection

MOXTEK 50 kV MAGNUM® X-ray sources are small, low power devices used for a variety of applications including handheld, portable and benchtop instrumentation.

MECHANICAL SPECIFICATIONS

Tube type: metal-ceramic
Cathode type: tungsten filament
Operating temperature: -10°C to +50°C
Storage temperature: -25°C to +85°C
Cooling: conduction
Weight: 350 g

TECHNICAL SPECIFICATIONS

Available targets: Ag, Au, Rh, W (equipped with Be window)
HV polarity: grounded anode
High voltage: 4 kV to 50 kV
Beam current: 5 µA to 200 µA
Maximum power: 4 W
Stability: <1.0% RSD
Input power: 6-12 VDC
Focal spot: 500 µm to 800 µm (typical)
Average lifetime: 2000 operating hours

Source Controller Option

FTC-200 Controller (separately sold item). Source can also operate using analog DC signals.

OTHER FEATURES

- Tube potted in a brass shield
- High voltage power supply potted on an aluminum shell
- High voltage insulation-silicone potting