



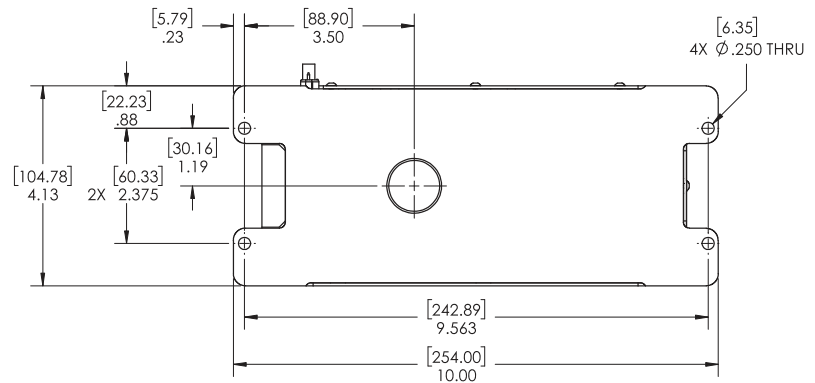
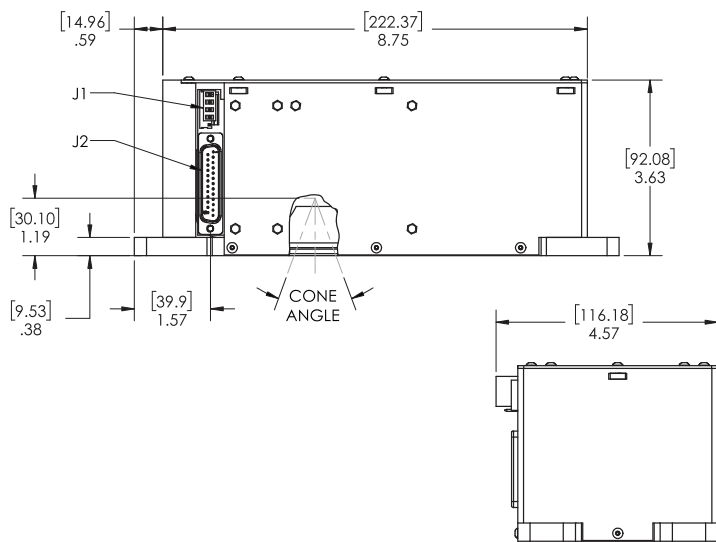
MF5050 INTEGRATED X-RAY SOURCE



The Curpow MF5050 is a radiation shielded integrated source that can be configured with many different focal spot, cone angle and power rated X-ray tubes to meet your specific requirements.

The compact lightweight enclosure is lead and oil free and can be customized to meet your needs.

The MF5050 can be used successfully in most X-ray applications that require both tight focus and high stability.



SPECIFICATIONS

Operating Voltage	10-50 kV
Maximum Power	50 Watts
Spot Size	33 μ m-50 μ m, 150 μ m, 500 μ m, 1000 μ m
Weight	<10 lbs (4.5kg)
Dimensions	10" x 4.13" x 3.61"
Target Material	W, Mo, Rh, Cr, Ag, Cu, Co
Input Power	24VDC @ 4A (max)
FOD (spot to window spacing)	1.19" typical
Cone of Illumination	40° max
Window Thickness	127 μ m Beryllium typical
Communication Interface	0 - 10V Analog Interface
Operation Ambient Temp.	+10° to +40°C
Voltage Regulation	+/- 0.1%, for 50uA - 1000 μ A Emission Current Change
Current Regulation	+/-0.5%, for a 10kV Change in Voltage
HV Ripple(At Max Load)	1% RMS at 50kV/1mA
Recommended Cooling	Forced air cooling on heatsink may be required, dependent on duty cycle and operating power

APPLICATIONS

- X-ray Fluorescence
- X-ray Diffraction
- Industrial Imaging
- Medical Imaging
- Process Control
- Thickness Gauging

GENERAL

The design and control of the cooling system and the radiation protection are the responsibility of the original equipment manufacturer (OEM). Careful system design should assure that the X-ray tube will be protected against lack of cooling. Otherwise the tube and/or the radiation protection may be damaged and become a hazard.

RADIATION PROTECTION

When installing the X-ray tube assembly into X-ray equipment and/or operating X-ray equipment, the responsibility for radiation protection from the X-ray window is with the user. Compliance with local regulatory requirements and limit values must be assured.