CX40 MICROFOCUS X-RAY SOURCE



The CX40 series from Curpow, Inc. delivers a compact solution for applications where lower voltage to achieve the necessary performance. Key uses include electronic component inspection—such as PCBs and semiconductor devices—and dental imaging, where compact, thin structures result in minimal X-Ray attenuation. Beyond these, CX40 sources excel in broader automated X-Ray inspection (AXI), high-resolution non-destructive testing (NDT), and micro-computed tomography (micro-CT). Featuring integrated 80 kV and 90 kV designs, these sources offer customizable side-window configurations and digital interfaces for enhanced adaptability, even in confined spaces. All models prioritize superior resolution, high magnification, and long-term stability.

KEY FEATURES

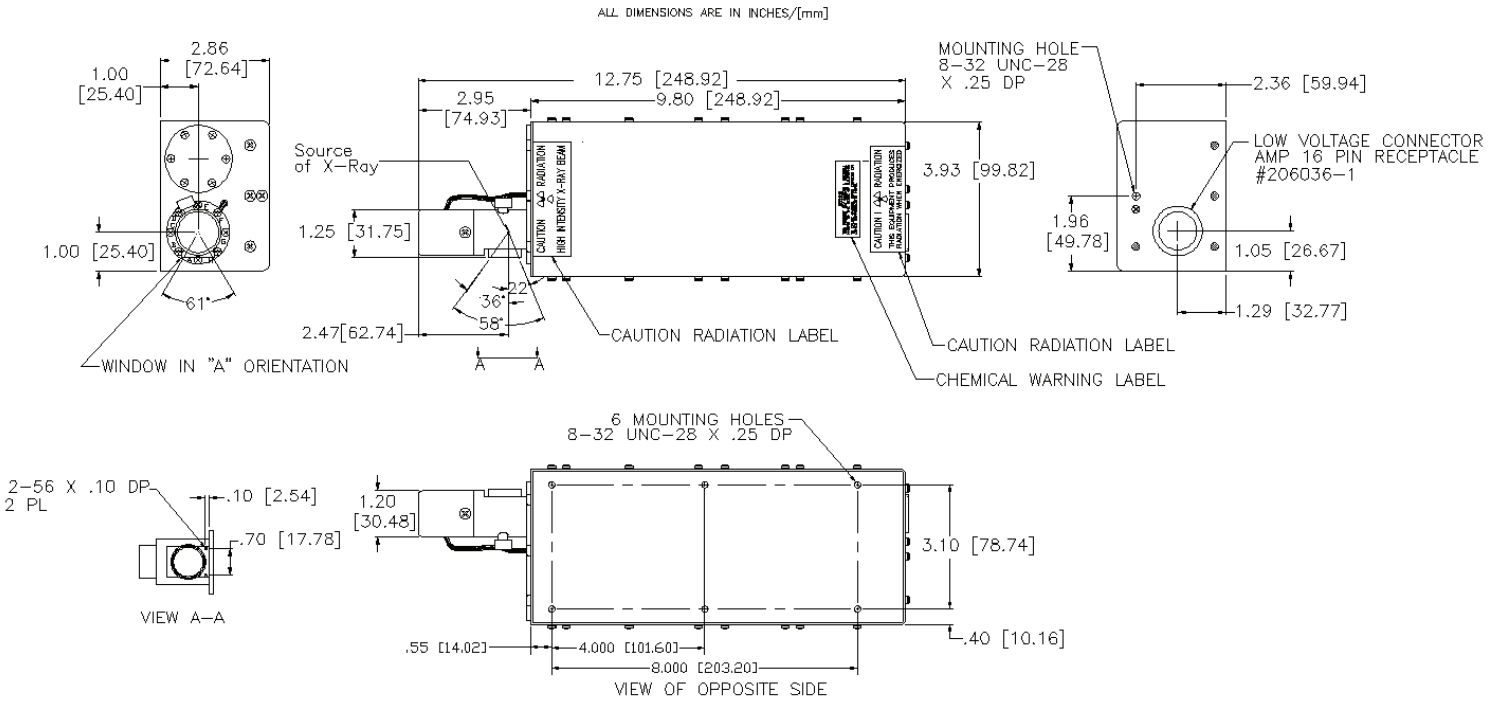
- **Small spot size:** Enables high-resolution imaging with low distortion and industry-leading quality.*
- **Short focal-to-object distance (FOD, down to 6 mm):** Supports extreme geometric magnification and rapid image capture.
- **High flux and spot position stability:** Delivers reliable, high-quality results with negligible fluctuations over time.
- **Automatic source conditioning:** Protects the unit during startup, reducing wear and damage risks.
- **Optional side-window configuration:** Facilitates integration into compact enclosures and versatile mounting options.
- **Digital and analog interface choices:** Simplifies setup and ensures peak performance across diverse setups.

* Spot size may vary by model; consult specifications for details.

SPECIFICATIONS

CX40SW X-Ray Source	
Maximum tube voltage	80kV
Operating voltage range	20–80kV
Tube current operational range	0–178 µA
Maximum power output	8W
Minimum focal spot size	15 µm
X-Ray beam angle	34°, round beam
Focus to object distance (FOD)	12.5 ± 0.5mm
Target material	Tungsten
X-Ray output window material	Beryllium
Weight	3.6 kg
Ambient temperature and humidity	0–32 °C, 0 –95% RH, up to 1,500 m (5,000ft) altitude
Method of cooling	Internal fan. Adequate air circulation around unit must be provided
Input power	12 –14 VDC, 4A max measured at the source
Control interface	Analog control and monitoring of operating conditions and status

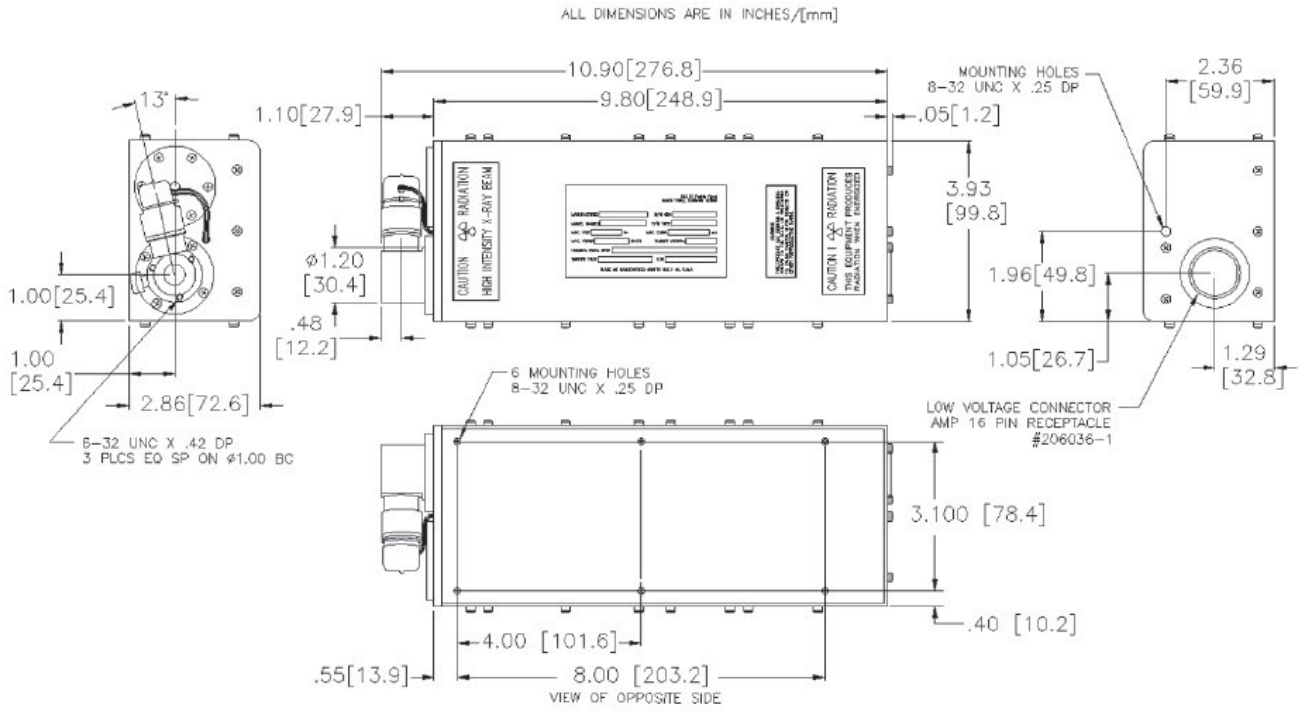
Outline drawing of CX40SW X-Ray Source



SPECIFICATIONS

CX40NB-A or -D X-Ray Source	
Maximum tube voltage	90kV
Operating voltage range	20–90kV
Tube current operational range	0–180 µA
Maximum power output	8W
Minimum focal spot size	5µm
X-Ray beam angle	40°, round beam
Focus to object distance (FOD)	12.0 ± 0.5mm
Target material	Tungsten
X-Ray output window material	Beryllium
Weight	3.6kg
Ambient temperature and humidity	0–32 °C, 0 –95% RH, up to 1,500 m (5,000ft) altitude
Method of cooling	Internal fan. Adequate air circulation around unit must be provided
Input power	12 –14 VDC, 4A max measured at the source
Control interface	Analog control and monitoring of operating conditions and status

Outline drawing of CX40NB-A or -D X-Ray Source



SPECIFICATIONS

CX40WB-A or -D X-Ray Source	
Maximum tube voltage	90kV
Operating voltage range	20–90kV
Tube current operational range	0–160 µA
Maximum power output	8W
Minimum focal spot size	4.5 µm
X-Ray beam angle	108°
Focus to object distance (FOD)	6.0 mm
Target material	Tungsten
X-Ray output window material	Beryllium
Weight	3.6 kg
Ambient temperature and humidity	0–32 °C, 0 –95% RH, up to 1,500 m (5,000ft) altitude
Method of cooling	Internal fan. Adequate air circulation around unit must be provided
Input power	12 –14 VDC, 4A max measured at the source
Control interface	RS-232, digital, as standard. Analog version also available

Outline drawing of CX40WB-A or -D X-Ray Source

