ANGSTROM SCIENCES
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ONYX® 2" Ultra High Vacuum, IC Target, Standard Magnetics

Metric Specifications

Construction

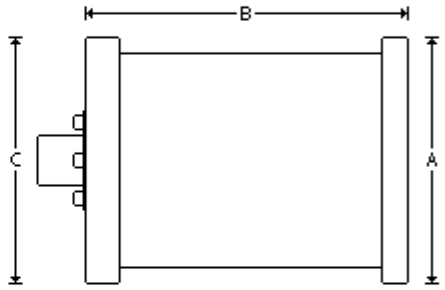
Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	Aluminum Oxide (Al_2O_3)

Cooling Requirements

Flow Rate at Maximum Power	0.05 LPS
Maximum Input Pressure, Open Drain	4 BAR
Maximum Input Temperature	20 °C

Dimensions

A	113.6 mm
B	162.1 mm
C	123.9 mm



General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature, Magnets Demounted	450 °C
Maximum Temperature, Magnets Mounted	100 °C
Source to Substrate Distance	50.8 mm - 304.8 mm
Weight, Approximate Without Options	5.0 kg

Maximum Sputtering Power *

Cathode Voltage	100 - 1500 Volts
Discharge Current	0.1 - 1.5 Amp
Indirect Cooled Mode, DC	800 Watts
Indirect Cooled Mode, RF	300 Watts
Operating Pressure	1 - 50 mTorr

Mounting, Standard

CF Flange	113.6 mm
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type N Connector, External Threads
Water, Outer Dimension Tubing	6.4 mm

Target

Cooling	Indirect
Diameter	50.8 mm
Form	Circular / Planar
Thickness	3.2 mm

Specifications Disclaimer

- All Angstrom Sciences NdFeB magnets are totally encapsulated and protected from degradation by water.
- All sources are available in external configurations.
- * Maximum power for cathode only, a target material's properties, such as, thermal and electrical conductivity may limit the maximum process power level.
- Some custom-engineered and specialty magnetrons may not meet standard specifications.
- Specifications are subject to change without notice.
- Typical performance. Results may vary with process parameters such as pressure, flow rate, target material, and substrate rotation, etc.

Please contact us for specifications regarding your application.