ANGSTROM SCIENCES
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ONYX® 1" Ultra High Vacuum, IC Target, Standard Magnetics

US Specifications

Construction

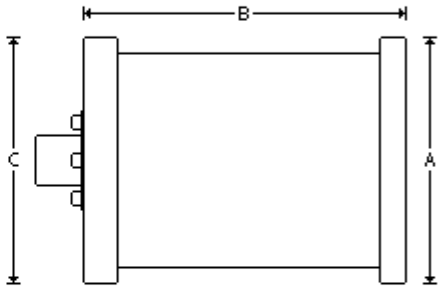
Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	Aluminum Oxide (Al_2O_3)

Cooling Requirements

Flow Rate at Maximum Power	0.25 GPM
Maximum Input Pressure, Open Drain	60 psi
Maximum Input Temperature	68 °F

Dimensions

A	3.370"
B	4.300"
C	3.875"



General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature, Magnets Demounted	842 °F
Maximum Temperature, Magnets Mounted	212 °F
Source to Substrate Distance	2.000" - 12.000"
Weight, Approximate Without Options	5 lb

Maximum Sputtering Power *

Cathode Voltage	100 - 1000 Volts
Discharge Current	0.1 - 1 Amps
Indirect Cooled Mode, DC	75 Watts
Indirect Cooled Mode, RF	25 Watts
Operating Pressure	3 - 50 mTorr

Mounting, Standard

CF Flange	3.370"
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type N Connector, External Threads
Water, Outer Dimension Tubing	0.187"

Target

Cooling	Indirect
Diameter	1.000"
Form	Circular / Planar
Thickness	0.060" - 0.125"

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.