ANGSTROM SCIENCES

ONYX® 3" DC / IC Target | MAG.II

US Specifications

Construction

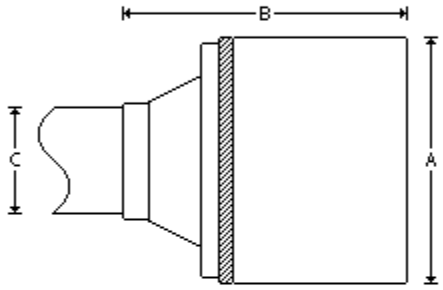
Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	CTFE

Cooling Requirements

Flow Rate at Maximum Power	1 GPM
Maximum Input Pressure, Open Drain	60 psi
Maximum Input Temperature	68 °F

Dimensions

A	4.638"
B	4.691"
C	1.000"



General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature	212 °F
Source to Substrate Distance	2.000" - 12.000"
Weight, Approximate Without Options	10 lb

Maximum Sputtering Power *

Cathode Voltage	100 - 1500 Volts
Direct Cooled Mode, DC	2 kW
Direct Cooled Mode, RF	1 kW
Discharge Current	0.1 - 4 Amps
Indirect Cooled Mode, DC	1.5 kW
Indirect Cooled Mode, RF	700 Watts
Operating Pressure	0.5 - 50 mTorr

Mounting, Standard

Power Cable, DC	RG393
Power Cable, RF	1675A
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type HN Connector, External Threads
Stem, Outer Dimension Tubing	1.000"
Water, Outer Dimension Tubing	0.375"

Target

Cooling	Direct / Indirect
Diameter	3.000" / 4.133"
Form	Circular / Planar
Thickness, Magnetic	0.125" Ni
Thickness, Non-Magnetic	0.250" / 0.448"

Specifications Disclaimer

- All Angstrom Sciences NdFeB magnets are totally encapsulated and protected from degradation by water.
- All sources are available in external configurations.
- Magnetic material calculations are optimized with Nickel targets.
- * 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.
- Thickness will vary depending upon coercivity of target material.
- 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.