

ONYX® 4" IC Target, MAG.II Magnetics

US Specifications

Construction

Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	PTFE / CTFE

Cooling Requirements

Flow Rate at Maximum Power	0.75 GPM
Maximum Input Pressure, Open Drain	60 psi
Maximum Input Temperature	68 °F

Dimensions

A	5.000"	
B	5.089"	
C	0.750"	

General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature	212 °F
Source to Substrate Distance	2.000" - 12.000"
Weight, Approximate Without Options	17 lb

Maximum Sputtering Power *

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

Mounting, Standard

Power Cable, DC	1675A
Power Cable, RF	1675A
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type HN Connector, External Threads
Stem, Outer Dimension Tubing	0.750"
Water, Outer Dimension Tubing	0.250"

Target

Cooling	Indirect
Diameter	4.000"
Form	Circular / Planar
Thickness, Magnetic	Up to 0.125" Ni
Thickness, Non-Magnetic	0.060" - 0.375"

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.
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Please contact us for specifications regarding your application.

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