

## ONYX® 3" Ultra High Vacuum, IC Target, Standard Magnetics

### US Specifications

#### Construction

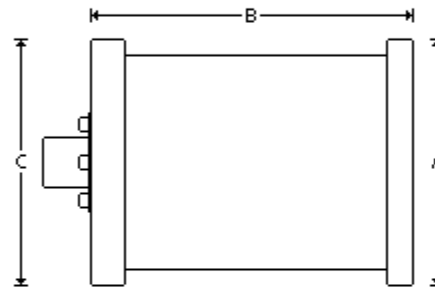
Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )

#### Cooling Requirements

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

#### Dimensions

A	5.970"
B	5.681"
C	5.875"



#### 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	Consult Factory

#### Maximum Sputtering Power \*

Cathode Voltage	100 - 1500 Volts
Discharge Current	0.1 - 3 Amps
Indirect Cooled Mode, DC	1 kW
Indirect Cooled Mode, RF	300 Watts
Operating Pressure	1 - 50 mTorr

**Mounting, Standard**

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CF Flange	5.970"
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type N Connector, External Threads
Water, Outer Dimension Tubing	0.250"

**Target**

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Cooling	Indirect
Diameter	3.000"
Form	Circular / Planar
Thickness	0.125"

**Specifications Disclaimer**

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- 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.
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Please contact us for specifications regarding your application.

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