

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

Metric Specifications

Construction

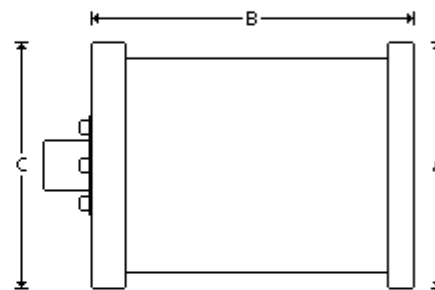
Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	Aluminum Oxide (Al ₂ O ₃)

Cooling Requirements

Flow Rate at Maximum Power	0.02 LPS
Maximum Input Pressure, Open Drain	4 BAR
Maximum Input Temperature	20 °C

Dimensions

A	85.6 mm
B	109.3 mm
C	98.5 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	2.3 kg

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	85.6 mm
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type N Connector, External Threads
Water, Outer Dimension Tubing	4.8 mm

Target

Cooling	Indirect
Diameter	25.4 mm
Form	Circular / Planar
Thickness	1.6 mm - 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.
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Please contact us for specifications regarding your application.

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