

ONYX® 6.75" Rotary, DC / IC Target, High Uniformity Magnetics

Metric Specifications

Construction

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

Cooling Requirements

Flow Rate at Maximum Power	0.16 LPS
Maximum Input Pressure, Open Drain	4 BAR
Maximum Input Temperature	20 °C

Dimensions

A	Consult Factory	
B	Consult Factory	

General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature	100 °C
Source to Substrate Distance	50.8 mm - 304.8 mm
Weight, Approximate Without Options	31.8 kg

Maximum Sputtering Power *

Cathode Voltage	100 - 1500 Volts
Direct Cooled Mode, DC	9 kW
Direct Cooled, Mode, RF	Consult Factory
Discharge Current	18 Amps
Indirect Cooled Mode, DC	Consult Factory
Indirect Cooled Mode, RF	Consult Factory
Operating Pressure	1 - 50 mTorr

Mounting, Standard

Cathode Mounting	Flange
Power Connector, DC	7/16 DIN
Power Connector, RF	7/16 DIN
Water, Outer Dimension Tubing	9.6 mm

Power Requirements

Drive	50 / 60 Hertz
Readout	50 / 60 Hertz

Target

Cooling	Direct / Indirect
Diameter	171.5 mm
Form	Circular / Planar
Thickness	6.4 mm / 12.7 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.
-

Please contact us for specifications regarding your application.

Angstrom Sciences | Call +1-412-469-8466 | www.angstromsciences.com