

ONYX® 1" IC Target, Standard Magnetics

Metric Specifications

Construction

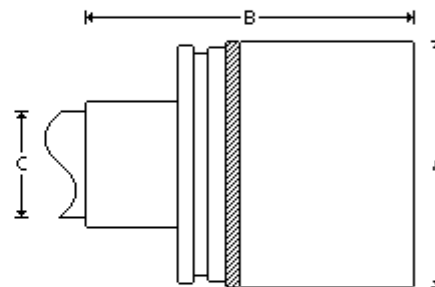
Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	CTFE

Cooling Requirements

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

Dimensions

A	38.1 mm
B	50.9 mm
C	19.1 mm



General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature	100 °C
Source to Substrate Distance	50.8 mm - 304.8 mm
Weight, Approximate Without Options	198.5 g

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	2 - 50 mTorr

Mounting, Standard

Power Cable, DC	RG142
Power Cable, RF	RG142
Power Connector, DC	Type N Connector, External Threads
Power Connector, RF	Type N Connector, External Threads
Stem, Outer Dimension Tubing	19.1 mm
Water, Outer Dimension Tubing	4.8 mm

Target

Cooling	Indirect
Diameter	25.4 mm
Form	Circular / Planar
Thickness	0.3 mm - 1.6 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.

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