

ONYX® 5" DC / IC Target, MAG.II

Metric Specifications

Construction

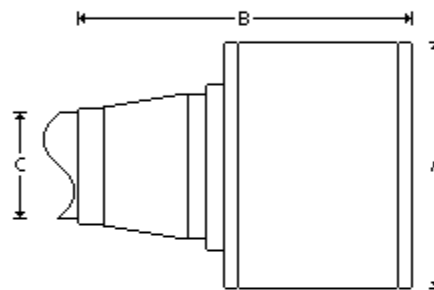
| | |
|--------------|---------------------|
| Anode | 304 Stainless Steel |
| Cathode Body | OFHC Copper |
| Insulator | PTFE / CTFE |

Cooling Requirements

| | |
|------------------------------------|----------|
| Flow Rate at Maximum Power | 0.10 LPS |
| Maximum Input Pressure, Open Drain | 4 BAR |
| Maximum Input Temperature | 20 °C |

Dimensions

| | |
|---|-----------------|
| A | Consult Factory |
| B | Consult Factory |
| C | 25.4 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 | Consult Factory |

Maximum Sputtering Power *

| | |
|--------------------------|------------------|
| Cathode Voltage | 100 - 1500 Volts |
| Direct Cooled Mode, DC | 5 kW |
| Direct Cooled Mode, RF | 1.5 kW |
| Discharge Current | 0.1 - 10 Amps |
| Indirect Cooled Mode, DC | 1.5 kW |
| Indirect Cooled Mode, RF | 1 kW |
| Operating Pressure | 0.5 - 50 mTorr |

Mounting, Standard

| | |
|-------------------------------|--------------------------------------|
| Power Cable, DC | RG393 |
| Power Cable, RF | 1675A |
| Power Connector, DC | Type UHF Connector, External Threads |
| Power Connector, RF | Type HN Connector, External Threads |
| Stem, Outer Dimension Tubing | 25.4 mm |
| Water, Outer Dimension Tubing | 9.6 mm |

Target

| | |
|-------------------------|-------------------|
| Cooling | Direct / Indirect |
| Diameter | 127.0 mm |
| Form | Circular / Planar |
| Thickness, Magnetic | 4.8 mm Ni |
| Thickness, Non-Magnetic | 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.
 - 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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