

ONYX® 5" High Power RF, Standard Magnetics

US Specifications

Construction

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

Cooling Requirements

| | |
|------------------------------------|--------|
| Flow Rate at Maximum Power | 1 GPM |
| Maximum Input Pressure, Open Drain | 60 psi |
| Maximum Input Temperature | 68 °F |

Dimensions

| | | |
|---|-----------------|--|
| A | Consult Factory | |
| B | Consult Factory | |
| C | 1.000" | |

General

| | |
|-------------------------------------|--------------------------------|
| Magnetic Enhancement | Permanent (NdFeB) Encapsulated |
| Maximum Temperature | 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 - 6 Amps |
| Indirect Cooled Mode, DC | 3 kW |
| Indirect Cooled Mode, RF | 2 kW |
| Operating Pressure | 0.5 - 50 mTorr |

Mounting, Standard

| | |
|-------------------------------|-------------------------------------|
| Power Cable, DC | Dual 1675A |
| Power Cable, RF | Dual 1675A |
| Power Connector, DC | Dual HN Connector, External Threads |
| Power Connector, RF | Dual HN Connector, External Threads |
| Stem, Outer Dimension Tubing | 1.000" |
| Water, Outer Dimension Tubing | 0.375" |

Target

| | |
|-----------|-------------------|
| Cooling | Indirect |
| Diameter | 5.000" |
| Form | Circular / Planar |
| Thickness | 0.060" - 0.500" |

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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