



Hollow Cathode Assembly

Semicon Associates has been supplying Hollow Cathode Assemblies (HCA) for over 25 years. Semicon's close relationship with aerospace and scientific organizations has proven instrumental in developing these emerging technologies. Applications include ion sources, electric propulsion, plasma contactors, spacecraft neutralization, and hollow cathode lamps.

These devices consist of a porous tungsten matrix impregnated with a barium-based emission enhancing material. The hollow insert may include a hi-reliability potted heater assembly and additional support structures. Semicon can provide the entire assembly or the hollow cathode insert. Custom designs are available.

#### Typical Specifications

<b>Size</b>	.050" to 4" diameter (1.2 mm – 100 mm)	Lengths to 6" (150 mm)
<b>Discharge Current</b>	2 amps – 50 amps	



a ceradyne company

Semicon Associates has a proven record in space-qualified applications, from low earth orbit programs to deep space exploration. These devices are mission critical and are constructed using the same quality systems that are used for the manufacture of space-qualified microwave cathodes. HCAs are built under strict materials and data control, with documentation and test data available if necessary.

Beyond technical expertise, we offer a market and team driven approach. Semicon Associates will partner with you to develop customized solutions tailored to your needs. Our partnership continues after the sale is completed to ensure you receive maximum benefit from your purchase.



Hollow Cathode Assemblies

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