



**AEGIS™**

[www.hccindustries.com](http://www.hccindustries.com)

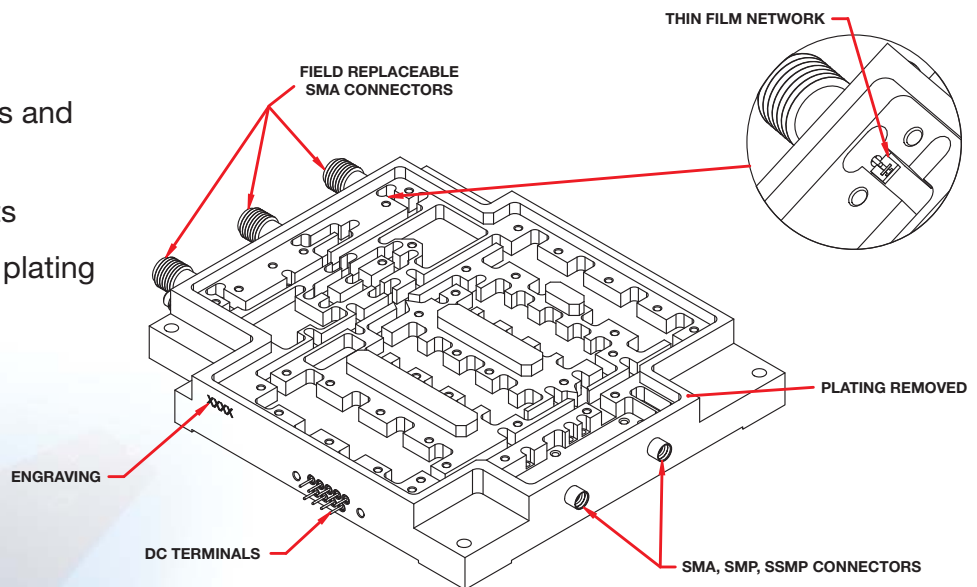
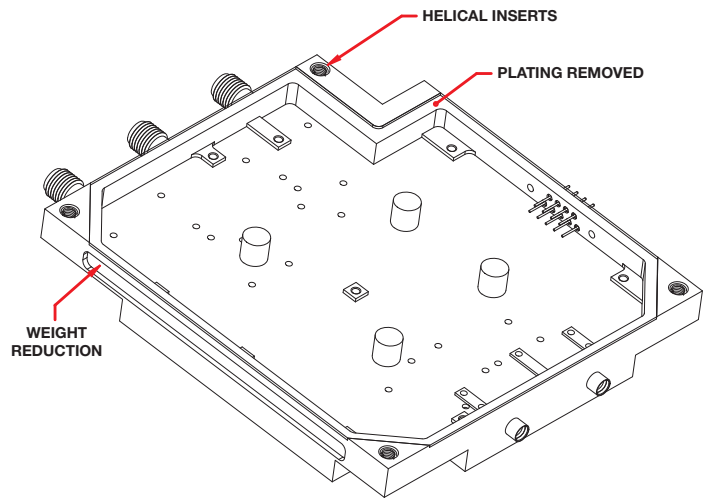
**AMETEK®**  
HCC INDUSTRIES

## ***Machined Aluminum Micro-Electronic Packages***

HCC Aegis has the capability and the experience to design and manufacture highly complex aluminum micro-electronic packages for defense, aerospace and other applications.

### ***Product features include:***

- ▲ Housing materials
  - ✓ Aluminum (Al)
  - ✓ Aluminum Silicon (AlSi)
  - ✓ Aluminum Silicon Carbide (AlSiC)
- ▲ Glass or ceramic interconnections
  - ✓ DC feed thru terminals
  - ✓ RF terminals (SMA, SMP, SSMP)
  - ✓ Field replaceable SMA connectors
  - ✓ Multi-pin connectors
- ▲ Thin film networks
- ▲ Integral mounting feet
- ▲ Brazed mounting studs and hardware
- ▲ Helical threaded inserts
- ▲ Secondary removal of plating for laser welding
- ▲ Engraving



## Other Products from HCC Aegis

- ▲ **Flatpacks (butterfly packages)**
  - ✓ Single piece (bathtub) and multi-piece housings
- ▲ **Plug-ins**
  - ✓ Single piece (bathtub) and multi-piece housings
- ▲ **Plug-in flats (platforms)**
- ▲ **Machined housings in Kovar, stainless and other materials**
- ▲ **Complex integrated packages with ceramic feedthrus and terminals, RF and DC terminals, connectors, and optical fiber tubes**
- ▲ **Thermal management solutions**
- ▲ **Lids and covers**

## Capabilities

- ▲ **Machining, forming and stamping**
- ▲ **High temperature brazing**
- ▲ **High temperature glass-to-metal-sealing**
- ▲ **Low temperature brazing and secondary component installation**
- ▲ **Plating**
  - ✓ In-house capabilities – Gold and Nickel
  - ✓ Also available – Tin and Copper
- ▲ **Testing**
  - ✓ Leak (hermeticity)
  - ✓ Electrical
  - ✓ Dimensional (CMM)
  - ✓ Plating adhesion
  - ✓ Environmental testing per Mil-STD-883 Table IV

### About HCC Aegis

Sealing glass to metal for over 25 years, HCC Aegis has made its name sealing the most demanding configurations of microelectronic packages in use today. As a business unit of AMETEK HCC Industries, Aegis manufactures a full range of industry standard and complex custom packages in both glass and ceramic configurations, to your drawings and technical requirements.

#### Check-out the Aegis Advantage:

- ✓ *Scale – we can handle any sized job*
- ✓ *Technology – an unbeatable combination of engineering expertise and experience*
- ✓ *Customer Service – real-time product and order status at the customer service desk*
- ✓ *Quality – designed in and thoroughly tested*
- ✓ *Supply Chain Management – skills essential to the successful execution of the most complex projects*



HCC Aegis  
50 Welby Road • New Bedford, MA 02745 • USA  
TEL: 508-998-3141 • FAX: 508-995-7315  
[www.hccindustries.com](http://www.hccindustries.com)

#### Contact in Europe:

AMETEK HCC Industries  
c/o 2 New Star Road • Leicester, LE4 9JQ • UK  
TEL: +44 (0) 116 246 3046  
[www.hccindustries.com](http://www.hccindustries.com)

#### Contact in Asia:

AMETEK Shanghai (SPL)  
Room 912 • Metro Tower • NO 30 • Tian Yao Qiao Road  
Shanghai • China 200020  
TEL: + (86) 216426811136 • FAX: + (86) 2164267818  
[www.hccindustries.com](http://www.hccindustries.com)