

# CAPABILITIES LIST

Process Capability	Details
<b>HERMETIC SEALING</b>	<ul style="list-style-type: none"> <li>- Ceramic-to-Metal, Using PA&amp;E's Patented Polycrystalline Ceramic, Kryoflex®</li> <li>- Glass-to-Metal per MIL-STD-883 and JEDEC Spec 9A</li> </ul>
<b>BRAZING PER MIL-B-007883, GRADE A</b>	<ul style="list-style-type: none"> <li>- Hydrogen</li> <li>- Belt Furnace</li> <li>- Vacuum</li> <li>- Induction, Using an Infrared Controller</li> <li>- Inert Gas</li> <li>- Diffusion Bonding</li> <li>- Ceramic-to-Metal</li> </ul>
<b>SOLDERING PER J-STD-001C AND NHB-5300.4 (3A-1)</b>	<ul style="list-style-type: none"> <li>- Hand</li> <li>- Dip</li> <li>- Fountain</li> <li>- Belt Furnace</li> <li>- Vacuum</li> <li>- Forming Gas</li> </ul>
<b>WELDING</b>	<ul style="list-style-type: none"> <li>- Laser</li> <li>- Cutting</li> <li>- Resistance</li> <li>- TIG</li> </ul>
<b>PLATING</b>	<ul style="list-style-type: none"> <li>- Gold per MIL-G-45204 and ASTM-B488</li> <li>- Electroless Nickel per MIL-C-26074 and ASTM-B733</li> <li>- Electrolytic Nickel per QQ-N-290</li> <li>- Nickel Di-Plate</li> <li>- Chemical Conversion Coating per MIL-C-5541</li> <li>- Silver per QQ-S-365</li> <li>- Electrolytic Tin per MIL-T-10727</li> <li>- Electrolytic Copper per MIL-C-14550</li> </ul>
<b>MARKING</b>	<ul style="list-style-type: none"> <li>- Mechanical Engraving</li> <li>- Electro-etching</li> <li>- Epoxy Inking</li> </ul>
<b>PASSIVATION</b>	Per QQ-P-35
<b>ANNEALING/HEAT TREATING</b>	Per Appropriate Material Specifications
<b>ETCHING/PASSIVATION</b>	Per Appropriate Material Specifications
<b>CHEMICAL CLEANING</b>	
<b>ANODIZING</b>	

Process Capability	Details
<b>THERMAL CYCLE TESTING</b>	Per MIL-STD-883, Method 1010
<b>THERMAL SHOCK TESTING</b>	Per MIL-STD-883, Method 1011
<b>HERMITICITY TESTING</b>	Per MIL-STD-883, Method 1014, Test Condition A
<b>ELECTRICAL TESTING</b>	Per MIL-STD-202F, Method 301 and 302
<b>X-RAY FLOURESCENT TESTING</b>	Per ASTM-B-568
<b>VACUUM BRAZING</b>	Per AWS C3.6
<b>SOLDERABILTY TESTING</b>	Per MIL-STD-883, Method 2003
<b>METALLURGICAL ANALYSIS</b>	Using Microscope and Lab Equipment
<b>CNC PROGRAMMING</b>	<ul style="list-style-type: none"> <li>- Mastercam Version 10 MR2 (Includes Mill/Design/Lathe)</li> <li>- Solidworks (Includes Part, Assembly, Drawing and E-Drawing)</li> <li>- Pro/ENGINEER 3D Design Software</li> </ul>
<b>MACHINING</b>	<ul style="list-style-type: none"> <li>- CNC Vertical Machining</li> <li>- CNC Horizontal Machining</li> <li>- CNC Turning</li> <li>- CNC Lathework</li> <li>- CNC Millwork</li> <li>- CNC EDM</li> <li>- CNC Waterjet</li> <li>- Manual Millwork</li> <li>- Swiss Screw Machining</li> </ul>
<b>QUALITY STANDARDS</b>	<ul style="list-style-type: none"> <li>- ISO 9001:2000 certified</li> <li>- ISO 9001:200/AS 9100 certified</li> <li>- Design and drafting per ISO-9001, MIL-STD-100, ASME-Y.14.5M-1994</li> <li>- 95% on-time delivery record</li> </ul>
<b>AUTOMATED ELECTRICAL TESTING</b>	
<b>DYE PENETRANT TESTING</b>	
<b>CHEMICAL CLEANING</b>	
<b>PUSH-OUT STRENGTH TESTING</b>	
<b>MATE/DE-MATE FORCE TESTING</b>	

