

Capabilities

Process Capability	Details
Hermetic Sealing	<ul style="list-style-type: none"> - Ceramic-to-Metal Brazing - PA&E's Ceramic, Kryoflex® - Glass-Metal - MIL-STD-883/JEDEC Spec 9A
Brazing per MIL-B-007883, Grade A	<ul style="list-style-type: none"> - Hydrogen - Belt Furnace - Vacuum - Inert Gas - Diffusion Bonding
Soldering per J-STD-001C and NHB-5300.4 (3A-1)	<ul style="list-style-type: none"> - Hand - Dip - Fountain - Belt Furnace - Forming Gas
Welding	<ul style="list-style-type: none"> - Laser - Resistance
Plating	<ul style="list-style-type: none"> - Gold per MIL-G-45204 and ASTM-B488 - Electroless Nickel per MIL-C-26074 and ASTM-B733, AMS 2404 - Electrolytic Nickel per AMS QQ-N-290 - Chem. Conversion Coating per MIL-DTL-5541
Marking	<ul style="list-style-type: none"> - Mechanical Engraving - Ink - Laser - Electro-etching
Passivation	Per QQ-P-35
Annealing/Heat Treating	Per Appropriate Material Specifications
Etching	Per Appropriate Material Specifications
Chemical Cleaning	



Thermal Cycle Testing	Per MIL-STD 883, Method 1010
Thermal Shock Testing	Per MIL-STD 883, Method 1011
Hermetic Testing	Per MIL-STD 883, Method 1014, Condition A
Electrical Testing	Per MIL-STD 202F Method 301, 302
X-Ray Fluorescent Testing	Per ASTM-B-568
Vacuum Brazing	Per AWS C3.6
Solderability Testing	Per MIL-STD 883, Method 2003
Metallurgical Analysis	Using Microscope and Lab Equipment
CNC Programming	<ul style="list-style-type: none"> - Mastercam V.10 MR2 (Mill/Design/Lathe) - Solidworks (Part, Assembly, Drawing/E-Drawing)
Design Software	<ul style="list-style-type: none"> - Pro/ENGINEER 3D Design Software
Machining	<ul style="list-style-type: none"> - CNC Vertical Machining - CNC Horizontal Machining - CNC Turning - CNC Lathe-work - CNC Millwork - CNC EDM - CNC Water-jet - Manual Millwork - Swiss Screw Machining
Quality Standards	<ul style="list-style-type: none"> - ISO 9001:2008/AS 9100 certified - Design/drafting per ISO-9001, MIL-STD-100, ASME-Y.14.5M-1994
Automated Electrical Testing	
Dye Penetrate Testing	
Push-out Strength Testing	
Mate/De-Mate Force Testing	

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