

CAPABILITIES LIST

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

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



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