

## Glass to Metal Seals for High Reliability Microelectronic Packaging

- Military and Aerospace Applications
- Hermetic Sealed Housings

## Housing Formats

- Power Headers
- ALSiC Hermetic Packaging
- Machined Modules
- Plug in Packages
- Flat Packs
- TO-5 and TO-8
- TO-3 and TO-66
- Lids & Covers

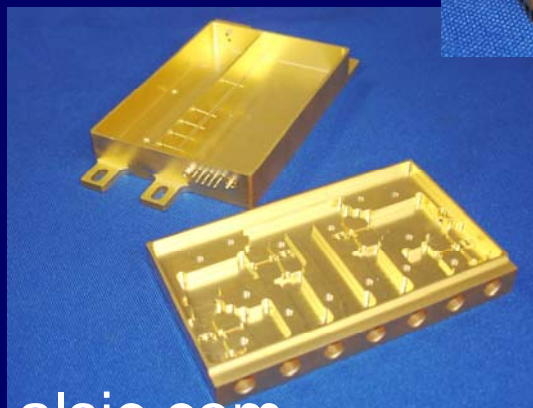
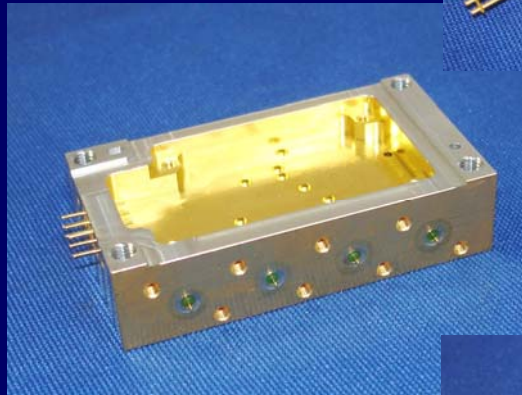
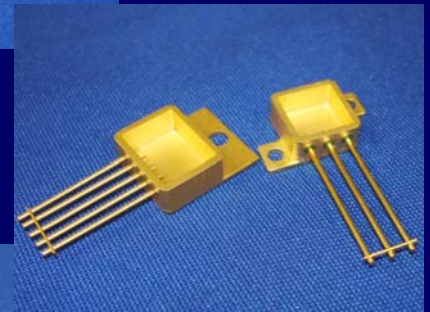
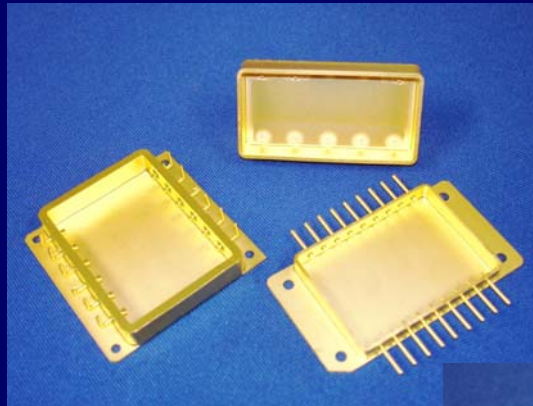
## Housing Materials

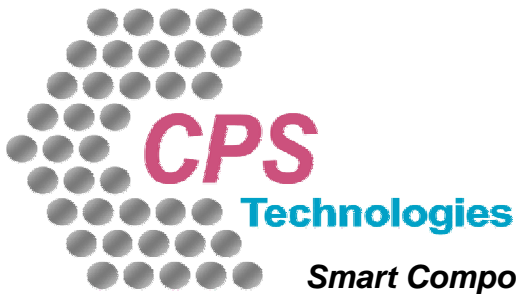
- ALSiC (46 and 48 alloy frame)
- ASTM F-15 Kovar
- Cold Rolled Steel
- Stainless Steel
- Alloy 52
- Copper Cored Alloy 52
- Molybdenum
- Aluminum
- Copper, CuMo, CuW

## Hermetic Seals

- Thermal Expansion Matched Seal
- Borosilicate
- Compression Seals
- Ceramic feedthrus

CPS matched seals are produced by the 'Two Step Sealing Process' for the most robust hermetic seal.





# CPS Hermetic Packaging

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## **CPS is Certified to ISO 9001:2000 standard**

CPS provides quality assurance testing to MID-STD 883 and MIL-STD 202, CPS is compliant to DFARS clause 252.225-7014 ALT.1 and RoHS.

## **CPS Matched Hermetic Seals**

CPS matched seals are produced by the 'Two Step Sealing Process' for the most robust hermetic seal.

## **CPS Plating Capabilities**

- Electrolytic Nickel per QQ-N-290 and ASTM B-689
- Electroless Nickel per Mil-C-26074E and ASTM B-733
- Gold per ASTM B-488 and Mil-G-45205C
- Fused Tin Plating

## **CPS Test Capabilities**

- Air to Air temperature cycle/shock per MIL-STD-883, method 1010
- Steam age/solderability testing per MIL-STD-883, method 2003
- Lead Fatigue per MIL-STD-883, method 2004
- Hermeticity validation to  $1 \times 10^{-10}$  cc/sec of helium per MIL-STD-883, method 1014
- Insulation resistance to 10 G $\Omega$  at 500 VDC per MIL-STD-883, method 1003
- Salt spray per MIL-STD-883, method 1009
- Compliance to JEDEC Std. 9 and Mil-STD-883

DUNS # 12-099-8661

CAGE Code 46613

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