

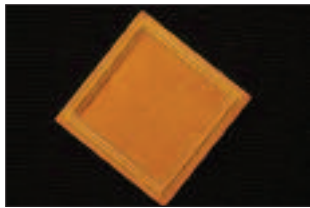
GOLD-N-FLO®

The better choice for hermetic sealing

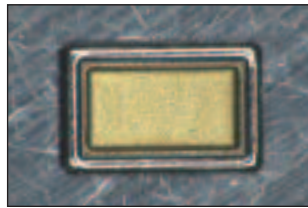
In order to overcome the yield losses and the high cost related to weld-attached Au/Sn to Kovar lids, SPM has developed the GOLD-N-FLO® process. By accurately placing Au/Sn as molten material on lids, the high cost of producing the Au/Sn frame preform as well as the tack welding cost is eliminated. GOLD-N-FLO® also eliminates the inconvenience and labor associated with assembling separate lids and preforms as part of the sealing process. In addition, it is often possible to reduce the volume of Au/Sn solder required to produce high yield seals.

➤ Lid Configurations and Size Constraints

Flat lids (.005" - .020" thick) from .075" square to 3.00" square
 Recessed lids (.005" - .020" thick) sealing surface width at .015" minimum
 Drawn lids (.005" - .010" thick) - flat on flange at .020" minimum



Flat



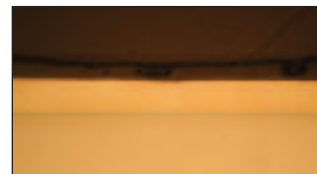
Recessed



Drawn

➤ Typical Cross Section

GOLD-N-FLO® produces an optimal void free interface between the Au/Sn and the lid that is uniform in thickness and width with a low wetting angle.



➤ Advantages of GOLD-N-FLO®

- **Eliminates yield losses from cracked and broken weld attached lids**
- **Ease of handling**
- **Void free attachment of Au/Sn to lid**
- **Pre sealing cleaning can be done**
- **Cost savings**

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