

HERMA SEAL

APPLICATION NOTE

Glass to Metal Seal

Application: Pressure Sensor Header

Required Function: The header houses a pressure transducer “die” and maintains 100% of the pressure to be measured via the hermetic seal. It also isolates the high pressure side from the non pressure side to protect conditioning electronics. The die is adhered on the nail head side of the seal and 4 gold wire bound connections are made from the die to the header electrodes. The header is laser welded onto the sensor body and conditioning electronics are connected to the non pressure side. The header must also withstand 15,000 PSI burst pressure for safety.

Previous Technology & Reason for Change: AEC was selected as the new supplier on an old design due to engineering & manufacturing support.

Product:

Custom 4 Pin Hermetic Seal
Compression Style
304L SS Body

Cold Headed Electrodes
- Ni Fe 52
- Selectively gold plated

Benefits:

AEC re-engineered to improve hermeticity by eliminating a stress riser in the old design and reduced cost with new innovative processing.



Specializing in the design and manufacture of switching, sensing and hermetic sealing solutions that push the limits of new and existing technologies

We WANT to hear about your design problems

- Leading global provider of specialized switching, sensing, and hermetic sealing solutions
- In-House product engineering & design capabilities
- Production facility enabling rapid prototyping of custom parts
- Over 70 years of application experience

For more information

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