

Metal Solutions for the Microelectronics Packaging Industry

Hi-Rel produces a wide range of metal piece parts for a variety of electronic assembly applications. Our fully integrated manufacturing facility is uniquely designed to handle your high quality material needs.

SOLDER PREFORMS

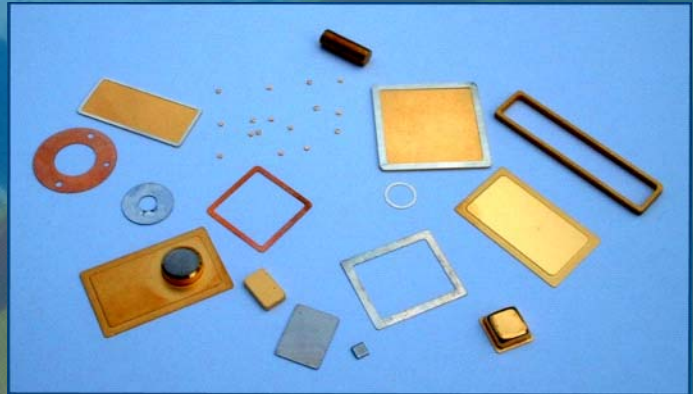
Application – Die attach, substrate mounting, general package assembly

Materials – Au/Sn, Au/Ge, Ag/Cu, Pb/Sn, etc

HERMETIC LIDS

Application – Packaging sealing

Materials – Kovar lids – solder seal, drawn & step covers



HEAT SPREADER TABS

Application – Heat dissipation for die and components

Materials – Moly, Cu/Mo/Cu, Kovar, etc. **Plated Ni and Au

WIRE BOND TABS

Application – Bonding Islands

Materials – Kovar, Moly, Cu/Mo/Cu, etc. **Plated Ni and Au

RING FRAMES

Application – Package side walls

Materials – Kovar, Moly **Plated Ni and Au

HYDROGEN GETTER

Application – Hydrogen absorption in hermetic packages

Materials – HR1 metal foil, zeolite and other gettering materials

VAPOUR DEPOSITION MATERIALS

Application – Conductive and solderable coating on glass, silicon, GaAs and ceramic

Materials – Gold, Silver Evaporation and Sputtering sources



Hi-Rel Lids Limited
Fuller Road
Harlesdon, Norfolk
IP20 9EA England

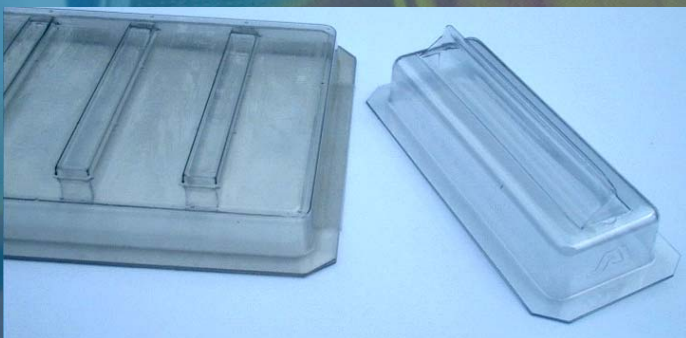
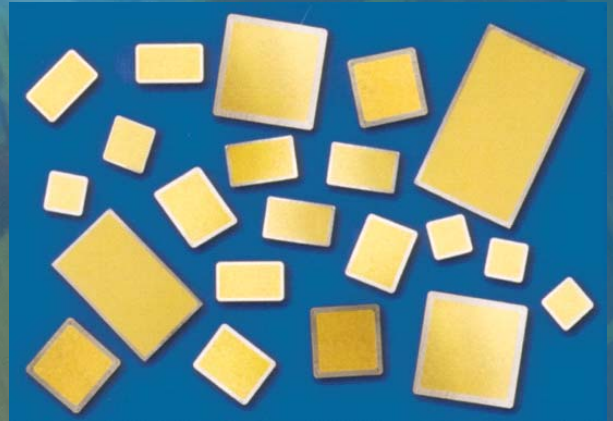
Tel: +44(0)1379 853944
Fax: +44(0)1379 853058
E-mail: sales@hirel.co.uk
Web: www.hirel.co.uk

Hermetic Solder Seal Lids

Hi-Rel's pre-assembled lid and solder frame provides a distinct advantage over sealing techniques using separate lids and solder frames.

Increase your sealing yields and lower your cost

- Aligned Lid and Preform make it easy to position on package seal ring
- Routinely achieve 99+% hermetic yields
- Small lots/prototype quantities available without hard tool
- Only one part to purchase



Material Specification:

- Lid – Kovar (F-15) or Alloy 42
 - Plated – Gold over Nickel
 - Frame – 80au/20sn Eutectic Solder, other solders available
- Lid and Frame tack welded together in four corners



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Fuller Road
Harlesdon, Norfolk
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Tel: +44(0)1379 853944
Fax: +44(0)1379 853058
E-mail: sales@hirel.co.uk
Web: www.hirel.co.uk