














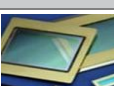


Microelectronic Packaging Comparison Chart

Packaging Products	Applications	Illustrations	Lid Material	Preform
Combo-Lids™ (Flat)	High reliability hermetic packaging		Kovar or Alloy 42	Gold-Tin or other alloys
Combo-Lids™ (Drawn)	High reliability hermetic packaging where die height is higher than package cavity depth		Kovar or Alloy 42	Gold-Tin or other alloys
Non-magnetic Metal Combo-Lids™	Medical Imaging and signal noise control		Mo, CuW, Bronze, Cu	Gold-Tin or other alloys
Non-magnetic Metal Combo-Lids™	High Purity non-magnetic combo lids, does not contain Nickel or plating		Mo, CuW, Bronze, Cu	Gold-Tin or other alloys
Non-magnetic BeCu Combo-Lids™	High Purity non-magnetic combo lids, does not contain Nickel or plating		BeCu	Gold-Tin or other alloys
Nozzle Combo-Lids™	MEMS, Automotive and High reliability hermetic package sealing		Kovar	Gold-Tin
Ceramic Combo-Lids™ with edge metallization	Non-magnetic applications		Al ₂ O ₃	Gold-Tin or other alloys
Tack welding services for Ceramic Lids	Non-magnetic applications		Al ₂ O ₃	Gold-Tin or other alloys
Selectively plated Combo-Lids™	High reliability hermetic package sealing		Kovar or Al ₂ O ₃	Gold-Tin or other alloys
Getter Tack welded Combo-Lids™	High reliability hermetic package sealing		Kovar	Gold-Tin or other alloys
Palladium Combo-Lids™	High reliability hermetic package sealing		Kovar with Palladium	Gold-Tin or other alloys
Seam Seal-Lids™	Hermetic package sealing without preform		Kovar	-
Special Shaped Combo-Lids™	High reliability hermetic package sealing		Kovar	Gold-Tin
Epo-Lids™	Ceramic Lid for non-hermetic packages including CuPacks™		Al ₂ O ₃	MEG-150 or MEG-165 Epoxy
Ceramic Air Cavity Packages	Wireless Applications - Si, GaAs and GaN RF power transistors		Alloy 42 plated with Ni, NiCo, Au	Alumina ring frames
Etch Lids for AR Coated Glass	Double preform attached lid for Visi-Lid™ application		Kovar	Gold-Tin or other alloys