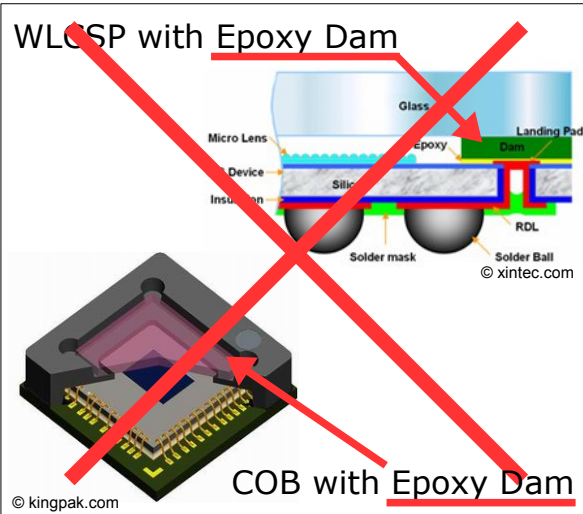
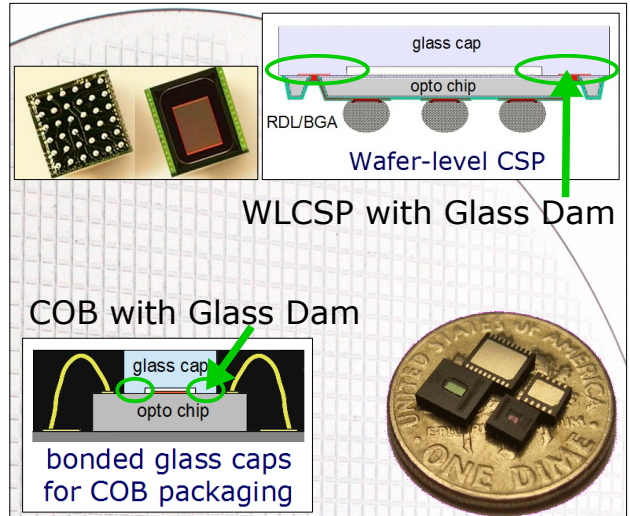


Reliable Optical Window for Image Sensors

Conventional Packages



Lithoglas Package

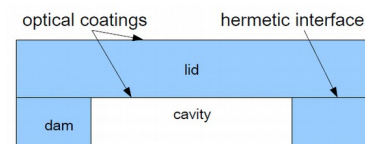
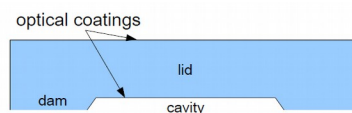


Lithoglas® Imager Cavity Window

- Matched CTE of dam, glass lid and silicon device
- Very large dimensions of image sensor caps possible
- Dam heights from 10 μm to several 100 μm
- Usable in Wafer-Level- or Chip-On-Board-Packaging
- Improved reliability due to mainly inorganic materials

CSP or COB Package • High Reliability • High Yield

Design Rules:



Lid Material

Borosilicate Glass / Fused Silica / others
optical coatings feasible

Borosilicate Glass / Fused Silica / others
optical coatings feasible

Lid Thickness

$\geq 300 \mu\text{m}$, $\leq 1100 \mu\text{m}$

$\geq 300 \mu\text{m}$, $\leq 1100 \mu\text{m}$

Dam Material

Borosilicate Glass

Borosilicate Glass / Fused Silica / others

Dam / Cavity Height

$\leq 20 \mu\text{m}$

$\geq 300 \mu\text{m}$, $\leq 1000 \mu\text{m}$

Dam Width

$\geq 50 \mu\text{m}$

$\geq 500 \mu\text{m}$