

MICRO ASSEMBLY

Sizing:

- Max assembly size as defined by current tooling 50mm max length or 25mm min length
- Any length or width can be achieved
- Limitations set by dicing parameters
- Currently the smallest array assembled measures 1.2mm X 5.1mm and contains 8 separate bands

Physical Characteristics:

- 15 μ +/-10 μ bond line tolerance
- 25 μ planarity tolerance
- Alignment of patterns or fiducials to within 10 microns
- Front to back alignment within 25 microns
- Patterned and coated features as small as 75 μ

Cosmetics:

- A-B scratch dig spec per Mil-C 48497
- Less than 100 μ chip outside the clear aperture and less than 25 μ inside the clear aperture

Materials:

- Silicon
- Quartz
- Fused Silica
- Soda Lime Glass
- Sapphire
- Germanium
- Zinc Selenide
- Polar Core (polarizer material)
- Zinc Sulfide

