

CASE STUDY



Livermore, CA, USA

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PRODUCT

Thin Film Semi Substrates

- Lithographic thin-film Construction
- Alumina substrates

Semiconductor circuitized substrates used in wafer probe systems

LMJ used for:

- Singulation of ceramic circuits
- Hole-Drilling



CHALLENGE

Dicing of high-density circuits on brittle material

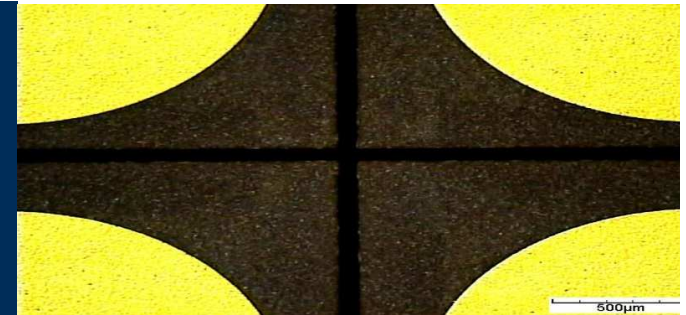
Repeatable and High-Speed process to singulate substrates without damaging the adjacent circuitry

Main processing criteria:

- Tight Kerf
- Cleanliness of the cut
- Speed and repeatability

Machining technologies able to reach these criteria:

- Dicing Saw
- Laser MicroJet (LMJ) - water jet guided laser



SOLUTION

Higher quality, enables new applications, better ROI

LMJ advantages versus Dicing Saw:

- Speed
- Repeatability

Installed machine type:

- Multiple LDS 300M
- 100 W green laser



LDS 300

