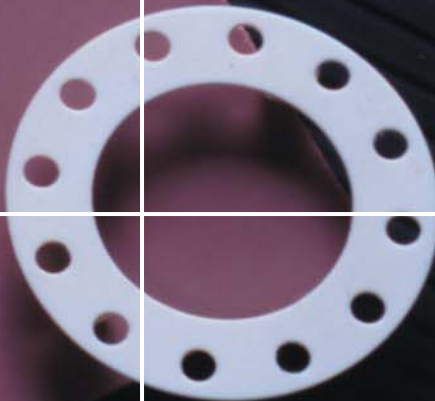
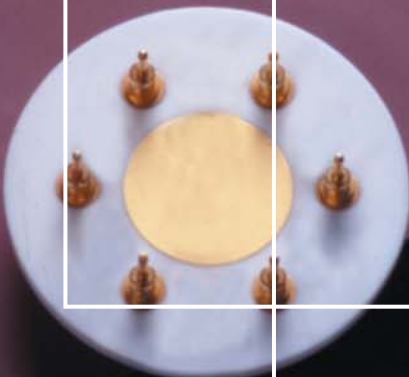
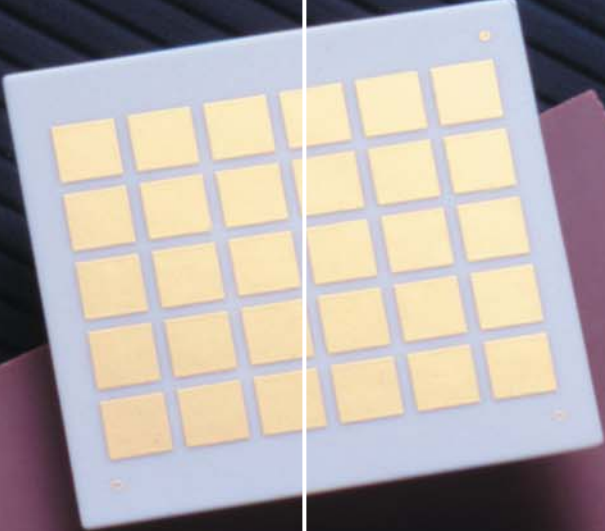


COORSTEK
Amazing Solutions.®



ELECTRONIC PRODUCTS

ADVANCED MATERIALS FOR AMAZING PERFORMANCE



Materials

- Technical Ceramics
 - Thick and Thin Film Substrates
 - Dielectric Ceramic Substrates
 - Dry-Pressed Alumina
- Engineering Plastics
- Precision-Machined Metals

Processes

- Ceramic Machining
- Laser Processing
- Polishing
- Annealing
- Metallizing Services
- Photo Etching down to 25 micron

Services

- Contract Manufacturing
- Assembly Services
- Supply Chain Management
- Lab Services

Sustrates Polishing Services / Surface Finishes.

Alumina:

MATERIAL	POLISHED	AS-FIRED
• Superstrate® 996	< 1 µin (0.025 µm)	2 µin (0.075 µm)
• ADS-996 (99.6%)	< 1 µin (0.025 µm)	3 µin (0.05 µm)
• ADS-995 (99.5%)	< 2 µin (0.05 µm)	5 µin (0.125 µm)

Special Substrates:

MATERIAL	POLISHED	AS-FIRED
• Titanates (High Dielectric Constant K=20-82)	< 1 µin (0.025 µm)	10 - 30 µin (0.25 - 0.75 µm)
• YTZP	< 1 µin (0.025 µm)	8 µin (0.2 µm)

Sizes

Thin Film – 0.005" - 0.060" (0.13 - 1.5 mm) thick	Up to 12" x 12" (305 x 305 mm) square
Thick Film – 0.010" - 0.120" (0.25 - 3.05 mm) thick	Up to 13.7" (3.48 mm) wide

Laser Services

- Technical via drilling and scribing with tolerances meeting ± 0.001"
- Rapid prototyping (2-5 days turn around on your urgent requirements)
- Volume production capabilities and capacity.

HIGH-DEFINITION PHOTO ETCHING

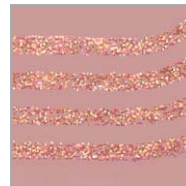
Our ultra-fine, multi-layer photo etching, used primarily for high-frequency and high-speed applications, achieves extremely tight tolerance lines and spaces. Specially formulated pastes with high-conductivity and high-backlit density are used to create the base conductor layer used for etching.



25 microns (0.001")
220x Magnification



32.5 microns (0.0013")
200x Magnification



50 microns (0.002")
200x Magnification

European Union (EU) Directive on Restriction of Hazardous Substances (RoHS): The EU Directive on RoHS specifies that an electronic product or component may not contain a listed substance except as specifically provided in the directive. CoorsTek ceramic substrates meet the requirements of the Directive.

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