

LASER MICROMACHINING SENSORS

Sensors Application

Material

Metallized Piezoelectric materials
(APCI-856, Flexible PVDF films,
PSI-5A4E , etc.)

Feature Size

Finger sizes 15 microns and larger

Laser Type

Picosecond Solid-State Laser
<15 picosecond laser pulse

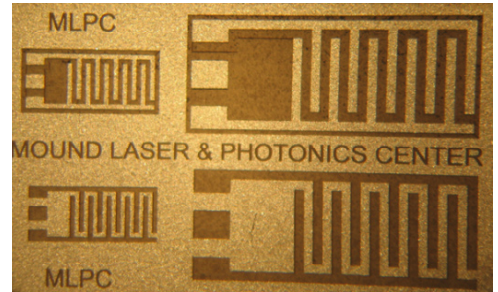
Industry Applications

Ultrasonic Nondestructive Evaluation
Novel Sensors
Vehicle Health Monitoring

Application Description

Picosecond laser micromachining allows rapid prototyping of novel sensor designs. Laser processing can be done with minimal heat input into temperature sensitive materials. System allows precise placement and cutting of patterns¹ along with controlled removal of metallized and/or other layers.

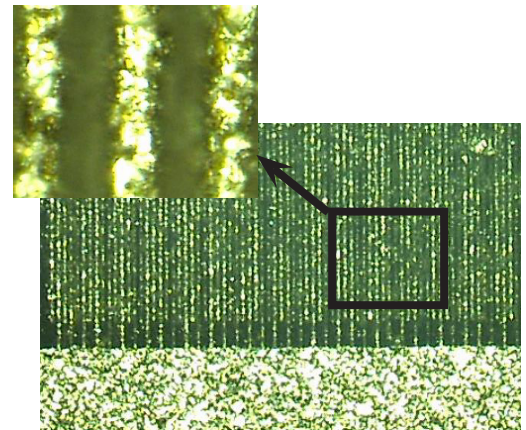
¹Sensors and Actuators A 148(2008) p359-365



Direct cutting of pattern on part or negative masks for film deposition methods



Precise placement of top & bottom patterns



15 micron finger features

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