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Model LPS-T Laser Trimming System



Typical Applications:

Micro-machining: trimming resistors, cutting, hole drilling, scribing and patterning such as:

- Active and passive resistor trimming
- Optional ceramic substrate precision cutting, scribing & hole drilling
- Optional wafer dicing scribe (and break)
- Optional display patterning
- Optional silicon wafer resizing/coring
- Optional flexible or rigid PCB cutting

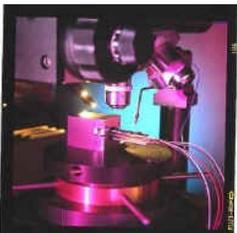
Laser System Model LPS-T for Active and Passive Resistor Trimming of Hybrid Circuits

Model LPS-T is a computer controlled laser thick film active resistor trimmer with optional thin-film high magnification trimming & viewing.

Standard is moving a parts handling stage with travel up to 12" x 12" or smaller on special order. Optional manual micropositioner probes for passive trimming.

SPECIFICATIONS:

- **Usage:** Resistor trimming of thick- or thin-hybrid circuits.
- **Safety:** Class I rated for eye safe operation without goggles
- **Laser:** Solid State, Q-switched,
- **Kerf:** Range 20-50um—adjustable. Optional 10um for thin-film trimming
- **Rep Rate:** 20 KHz
- **Wavelength:** 1064nm. Optional 532nm for thin film trimming
- **Pulsewidth:** 30ns, others on special order
- **Average Power:** 6w TEM₀₀ (single mode).
- **Viewing:** Magnified through the lens using video camera and flat panel 20" display
- **Magnification:** 60X viewing, real time, on video monitor, standard—optionally higher for thin-film
- **Targeting:** Electronic crosshairs visible on the monitor
- **Illumination:** Uniform using ring illuminator
- **Telescope:** Beam expander to reduce spot size
- **Monitor:** 20" flat panel display serving as a computer screen and video viewing of work site
- **Travel:** 12" x 12" X/Y stage
- **Motion:** Closed loop X/Y dc servo motors, precision ground ball screws & bearings
- **Resolution:** 1um, 0.5um on special order
- **Programming:** Custom User Interface, GUI, CAD/CAM, dxf download, CNC, GPIB, USB
- **Flying Probes:** Available on Model MEL-40: overhead probes to trim multiple resistors in one operation
- **Frame:** Unified, compact construction, minimal footprint
- **Cooling:** Air cooled laser (ambient)
- **Power:** 220VAC, 50/60Hz, 1-phase, 20a
- **Weight:** 2400 lbs in shipping crate
- **Footprint:** 3' x 7' plus separate electronics cabinet for instrumentation, PC and monitors
- **Options:** Thin-film trimming, optional large travel XY stage to move parts, DMM instrument with GPIB, XYZ manual micropositioner probes



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