UV Laser

UV, or ultraviolet, lasers operate within the ultraviolet spectrum, boasting a shorter wavelength that renders them exceptionally well-suited for precision applications, holding tolerances up to 0.0005”. UV lasers play a vital role in PCB manufacturing. They are employed for tasks such as cutting, drilling, and marking on circuit boards, ensuring the accuracy needed in electronic components. They can process precision laser cut parts with materials such as Kapton, Grafoil, SOMABLACK, PEEK and more. The advantages of UV lasers include:

- **High Precision, up to 0.0005”:** UV lasers excel in delivering intricate and precise results, making them indispensable for applications demanding utmost accuracy – up to 0.0005”.
- **Ideal for Intricate and Delicate Materials:** With their fine-tuned precision, UV lasers prove to be ideal for working with intricate and delicate materials, contributing to the versatility of their applications.
- **Efficient for Diverse Materials:** The versatility of UV lasers shines through as they efficiently cater to a broad range of materials, showcasing adaptability across various industrial requirements.

Suitable for Cutting and Marking: Whether it’s cutting or marking, UV lasers prove to be efficient in both applications, providing a multifaceted solution for material processing needs. Although, it is not a solution for serialization.

The UV laser ablation process explodes material rather than melting it, which results in a sharper, cleaner edge and less thermal influence when laser cut. A-Laser operates on a wide range of materials with our UV laser ablation systems, from SOMABLACK to precious metals to thermal substrates. Additionally, these materials are seen with adhesive combos that are clad or bonded. Our UV ablation specialists have built a vast library of tools to accommodate these various material combinations, their thicknesses, and cut requests of our customers.

By utilizing UV laser ablation, we can achieve incredibly intricate and complex patterns without charring the material and maintaining tolerances of +/- 12 microns or .0005″.

www.a-laser.com

UV Laser - Powerful Ablation for Polyimides, Metals, Substrates & More (a-laser.com)