

# YUCCA 100-343

## High power short nanosecond UV laser for high-speed precision micromachining

YUCCA, the UV fiber laser, provides high power at high pulse repetition rates with short nanosecond pulses. It is fully designed to improve laser process quality with shorter pulse widths and increase productivity with higher pulse repetition rates.

Its innovative patented fiber design enables a unique combination of short nanosecond pulses, performance for high-speed process and reduced overall processing cost. With a constant short nanosecond pulse duration and beam quality over the whole pulse repetition rate range, YUCCA is the right laser source for the next generation of UV laser micromachining equipment targeting higher throughput.

YUCCA is designed with high-end methodologies to exceed industrial quality standards and to guarantee reliability and serviceability. Manufactured with field proven technology and qualified components, good practices and high-quality, YUCCA is the right answer for 24/7 operations in extended production cycle environments.

<b>Wavelength</b>	<b>343 nm</b>
<b>Power</b> (*) 3 ns pulse duration (**) 10 ns pulse duration	100 W at 200 kHz ** 100 W at 800 kHz * 90 W at 1 MHz *
<b>Pulse Duration (**)</b> (**) Factory set	2 ns, 3 ns, 5 ns, 10 ns or burst mode
<b>Beam quality</b>	$M^2 < 1.2$



### Advantages

- ✓ Unprecedented beam quality
- ✓ High power 100 W up to 1 MHz
- ✓ High energy > 500  $\mu$ J/pulse
- ✓ Excellent beam quality  $M^2 < 1.2$  up to 4 MHz
- ✓ High peak power up to 50 kW
- ✓ Competitive price/COO
- ✓ Long UV crystal lifetime
- ✓ HALT designed / HASS Certified
- ✓ Pulse-On-Demand capability

### Applications

- ✓ PCB/Flex PCB via drilling, cutting and dpaneling
- ✓ Advanced packaging drilling and ablation
- ✓ Wafer scribing and debonding
- ✓ Photovoltaics scribing, cutting, deletion
- ✓ CFRP cutting, drilling and texturing
- ✓ OLED drilling and Lift-Off
- ✓ Ceramic scribing, cutting and drilling
- ✓ Glass processing (TGV)
- ✓ LED processing