

MPL-H-1053/30~50uJ/300-450mW



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser at 1053 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, fiber communication, etc.



SPECIFICATIONS

| | | |
|------------------------------------|----------|--|
| Central wavelength (nm) | | 1053 ± 1 |
| Operating mode | | Q-switched pulsed laser |
| Single pulse energy (μJ) | | 30~50 |
| Pulse duration (ns) | | ~10 |
| Peak power (W) | | 3000~5000 |
| Rep. rate (kHz) | FIXED | Setting up one fixed rep. rate internal between 1k-5kHz with stable pulse energy, pulse duration and pulse period. |
| | EXT TRIG | 1Hz-5kHz by external trigger with stable pulse energy, pulse duration and pulse period. |
| | QCW | QCW state with one rep. rate between 5k-30kHz. |
| Average power (mW) | | Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) |
| Ave power stability (over 4 hours) | | <1%, <3%, <5% |
| Transverse mode | | Near TEM ₀₀ |
| Warm-up time (minutes) | | <10 |
| M ² factor | | <1.5 |
| Beam divergence, full angle (mrad) | | <2.0 |
| Beam diameter at the aperture (mm) | | ~3.0 |
| Beam height from base plate (mm) | | 29 |
| Operating temperature (°C) | | 10~35 |
| Power supply (90-264VAC) | | PSU-H-FDA |
| Expected lifetime (hours) | | 10000 |
| Warranty | | 1 year |



| MPL-H-1053 | PSU-H-FDA |
|---|--|
| <p>154.5(L)×77(W) ×60(H) mm³, 0.9 kg</p> | <p>236(L) ×145(W) ×104(H) mm³, 2.3 kg</p> |