

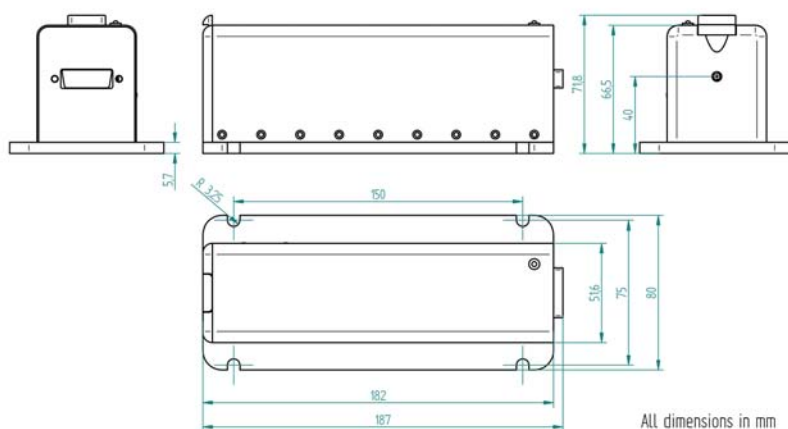
355-Q LASER OEM



MAIN APPLICATIONS:

The 355 nm pulsed laser is designed for applications where high pulse intensity is needed. The "355-Q Laser" operates in single mode q-switched regime and generates more than 1 kW peak power in nanosecond pulses, although average power does not exceed a few tens of milliwatts. Such lasers are useful in biology, Laser ranging, Laser remote sensing, chemistry, analytics, nonlinear optics and in biomedicine. The specifications can be arranged to customer requirements, please inquired directly!

Dimension Diagram: 355-Q Laser head



MAIN FEATURES:

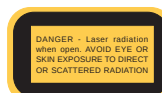
- Monolithic cavity design
- Longitudinal single mode operation
- Passively q-switched
- Peak power > 1 kW
- Pulse length ~ 2 ns
- Pulse energy > 1 μJ
- Variable repetition rate
- Trigger input / trigger output
- Transversal beam: TEM₀₀
- Compact and rugged size housing

355-Q Laser OEM ns pulsed 355 nm LASER	
Wavelength	355 nm
Laser material	Nd:YAG
Q-switch material	Cr4+:YAG
Average power *	>10 mW
Pulsewidth	~ 2 ns
Divergency (half angle) ; typ.	~ 3 mrad
Beam waist (diameter)	~ 240 μm
Repetition rate *	0 - 20 kHz
Pulse to pulse jitter (rms) at 10 kHz measured	< 3 %
Beam quality M ²	< 1,2
Extinction ratio of polarization	> 50 : 1

* depends on power rate and internal absorber start transmission



The 355-Q Laser system is a OEM version of a Impex HighTech GmbH diode-pumped solid state laser. As such, it is intended only for integration into other equipment. The 355-Q Laser does not comply with Center for Devices and Radiological Health (CDRH) standards. The customer is responsible for CDRH certification of any system that incorporates the 355-Q Laser.

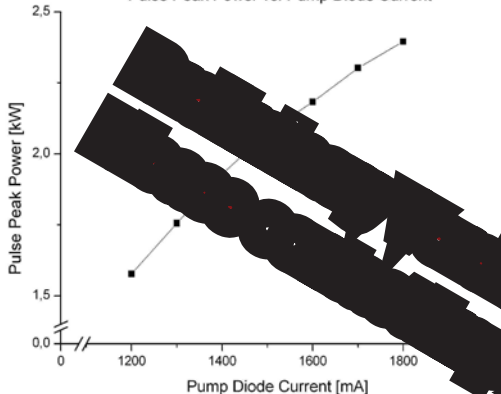


355-Q LASER OEM

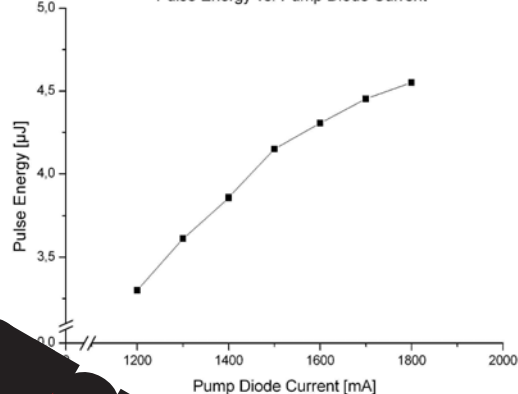


OPTICAL PROPERTIES:

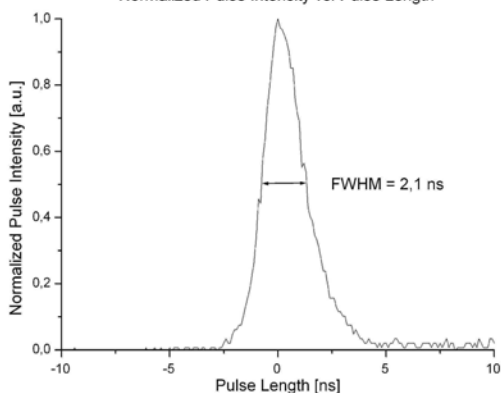
Pulse Peak Power vs. Pump Diode Current



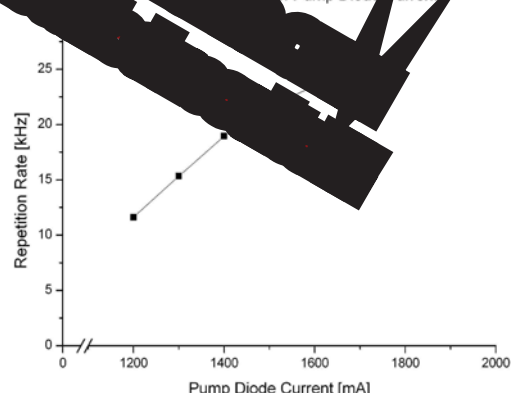
Pulse Energy vs. Pump Diode Current



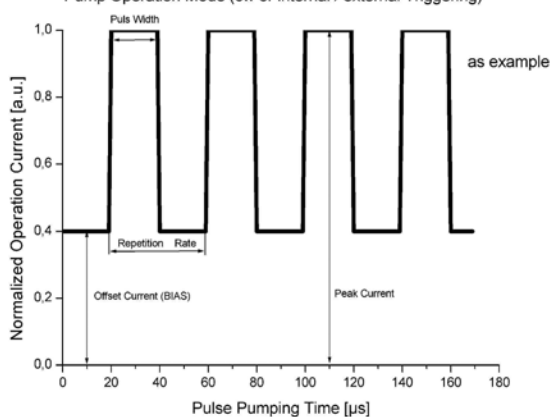
Normalized Pulse Intensity vs. Pulse Length



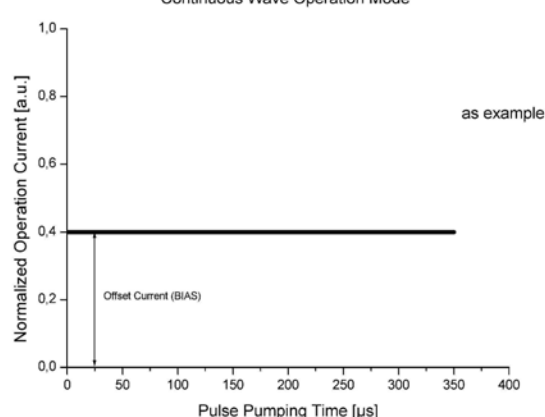
Repetition Rate vs. Pump Diode Current



Pump Operation Mode (cw or internal / external Triggering)



Continuous Wave Operation Mode



Impex HighTech follows a policy of continuous improvement of its products. Specifications are subject to change without notice.

The 532-Q Laser system is a OEM version of a Impex HighTech GmbH diode-pumped solid state laser. As such, it is intended only for integration into other equipment. The 532-Q Laser does not comply with Center for Devices and Radiological Health (CDRH) standards. The customer is responsible for CDRH certification of any system that incorporates the 532-Q Laser.

