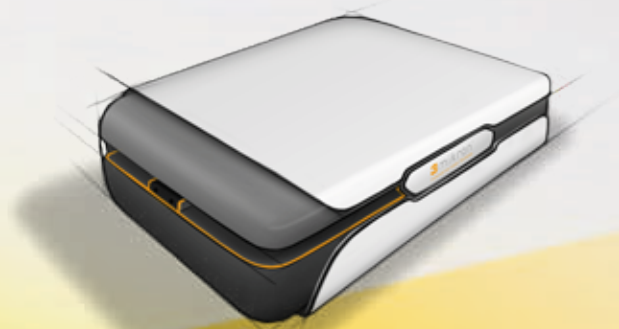


# High Energy - Short Pulse Q-Switch DPSSL Module

**3** m.i.k.r.o.n.™  
Innovative Laser Systems

- . High intensity 2.81 µm laser
- . Nanosecond pulses with up to 25 mJ
- . Linearly polarized beam
- . Highly efficient diode pumping
- . No high-voltage required
- . Maintenance free



## Specifications

Optical Parameters	
. Wavelength Range	2810 nm
. Average Output Power (max)	5 W
. Pulse Energy (max)	25 mJ (@100 Hz)
. Pulse Repetition Rate	500 Hz
. Pulse Duration (FWHM)	< 100 ns
. Polarization	Linear
. Average Current (max)	10 A
. Mode of Operation	Pulsed
. Beam Quality	M <sup>2</sup> < 10
. Beam Diameter	2.5 mm
. Beam Shape (focus)	top hat like
Cooling Requirements	
. Coolant	Distilled water with Algaecide and Corrosion Inhibitor
. Coolant Temperature	20 to 25 °C
. Coolant Flow Rate	≥ 4 lpm
. Coolant Pressure	(2 - 5) bar
. Required Cooling Power	≥ 780 W @ 25 °C Environment Temperature
Electrical Parameters	
. Diode Forward Voltage	~ 25 V
. Diode Forward Current	max 200 A Pulsed
. Average Power Consumption (max)	< 650 W
. max Ripple / Overshoot	< 5 %
Mechanical Dimensions	
. W x D x H	300 x 120 x 75 mm
. Weight	5.0 kg
. Emission Height	47.5 mm

