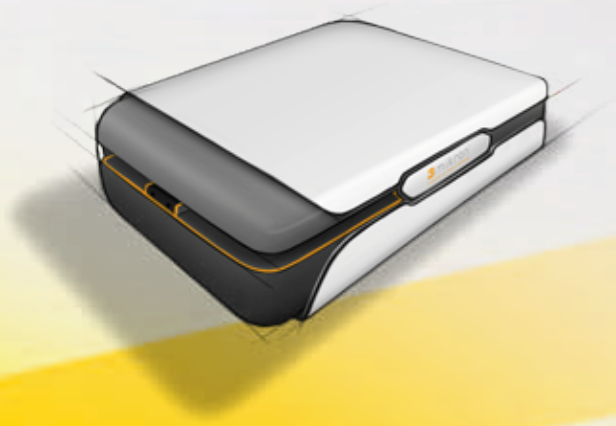
High Energy - Short Pulse
Q-Switch DPSSL Module

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^2 < 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	

DQS MED Quality Management ISO 13485

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