High Energy - Short Pulse
Mid-IR DPSSQL Module

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

QDPM-5 (Er:YLF)

- **Ultra-Stable High Power Mid-IR Laser**
- **Nanosecond Pulses with up to 25 mJ**
- **Highly Efficient Diode Pumping**
- **Ideal for Fiber Coupling into ~ 200 µm**
- **No High-Voltage Required**
- **Maintenance Free**

Specifications

Optical Parameters	
Wavelength	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 < 15
Beam Diameter	2.0
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
Mechanical Dimensions	
W x D x H	300 x 120 x 75 mm
Emission Height	47.5 mm
Weight	2.0 kg
Electrical Parameters	
Diode Forward Voltage	~ 25 V
Diode Forward Current	max 200 A Pulsed
Average Power Consumption (max)	< 650 W
max Ripple / Overshoot	< 5 %

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