MetroLaser, Inc.

MetroLaser PulseCore

A compact, environmentally robust, alignment-free passive Q-switched laser engineered for reliable operation in harsh environments.

➢ **High Power & Pulse energy**	3 Megawatt | 25 mJ | 1064 nm
➢ **Environmentally Robust**	Sealed stainless-steel pressure housing for reliable operation in harsh environments.
➢ **Compact & Fully Integrated**	Laser head and diode driver integrated into a 2-in. diameter x 19-in. long housing.
➢ **Long-Life Diode Pumping**	Diode pumping architecture provides long operating life and high reliability.
➢ **Alignment-Free Laser Head**	Monolithic laser architecture eliminates routine optical alignment.
➢ **Passive Q-Switching**	No external Q-switch driver or timing electronics.
➢ **Low Maintenance**	Solid-state, alignment-free architecture minimizes maintenance for long-term operation.

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Specifications

Laser Energy	25 mJ per pulse
Pulse stability (rms, over 6 hours)	<3%
M^2 factor	<1.5
Beam Diameter	<3 mm
Beam Divergence (mrad)	<2
Laser Wavelength	1064 nm
Pulse width	6~7 ns
Repetition rate	2 Hz
Sealed housing	Leak test (1000 psig)
O.D.	2 inches
Length	19 inches
Weight	12 lbs

Highlights

- ❖ High peak power
- ❖ Sealed laser source
- ❖ Designed for harsh environment
- ❖ DC power supply or battery
- ❖ No optical alignment required
- ❖ High pulse energy
- ❖ Hold external high pressure
- ❖ Designed for field deployment
- ❖ Custom housing and cap design
- ❖ Turn-key unit

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