



Moonbow SPO

Short Pulse Oscillator



Q-Peak's Short Pulse Oscillator provides an advanced front-end laser architecture for variable repetition-rate, sub-ns pulsewidth, actively Q-switched applications including high-accuracy remote sensing. The miniature size and remotely-located pump diodes also provide unique advantages to OEM laser suppliers.

- **Customer Focused**
- **Experienced Staff**
- **Laser Driven Innovation**



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Short Pulse Oscillator

Applications in High-accuracy Remote Sensing and Ranging, Unique Advantages to OEM Laser Suppliers.



Key Features

- Narrow spectral bandwidth
- Sub-ns pulsewidth
- Up to 50 kHz PRR
- Actively Q-switched
- Compact

Laser Head

Optical Specifications:

Optical Specifications:	Performance
Laser Type	Nd:YVO ₄
Wavelength	1064 nm
Polarization	Linear, horizontal
Polarization purity	> 100:1
Pulse energy	15-30 μ J
Pulse width	600-800 ps
Repetition rate	0-50 kHz
Temporal jitter	<300 ps
Beam diameter	< 2 mm (1/e ²)
Beam divergence	< 470 μ rad (half-angle)
Beam quality (M ²)	< 1.4
Ambient operation temperature range	0 to + 40 °C
Warm up time	< 1 min

Physical Specifications, Laser Head

Dimensions (length x width x height)	6.0 cm x 2.3 cm x 2.1 cm
Weight	45 g
Power	<40 W



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