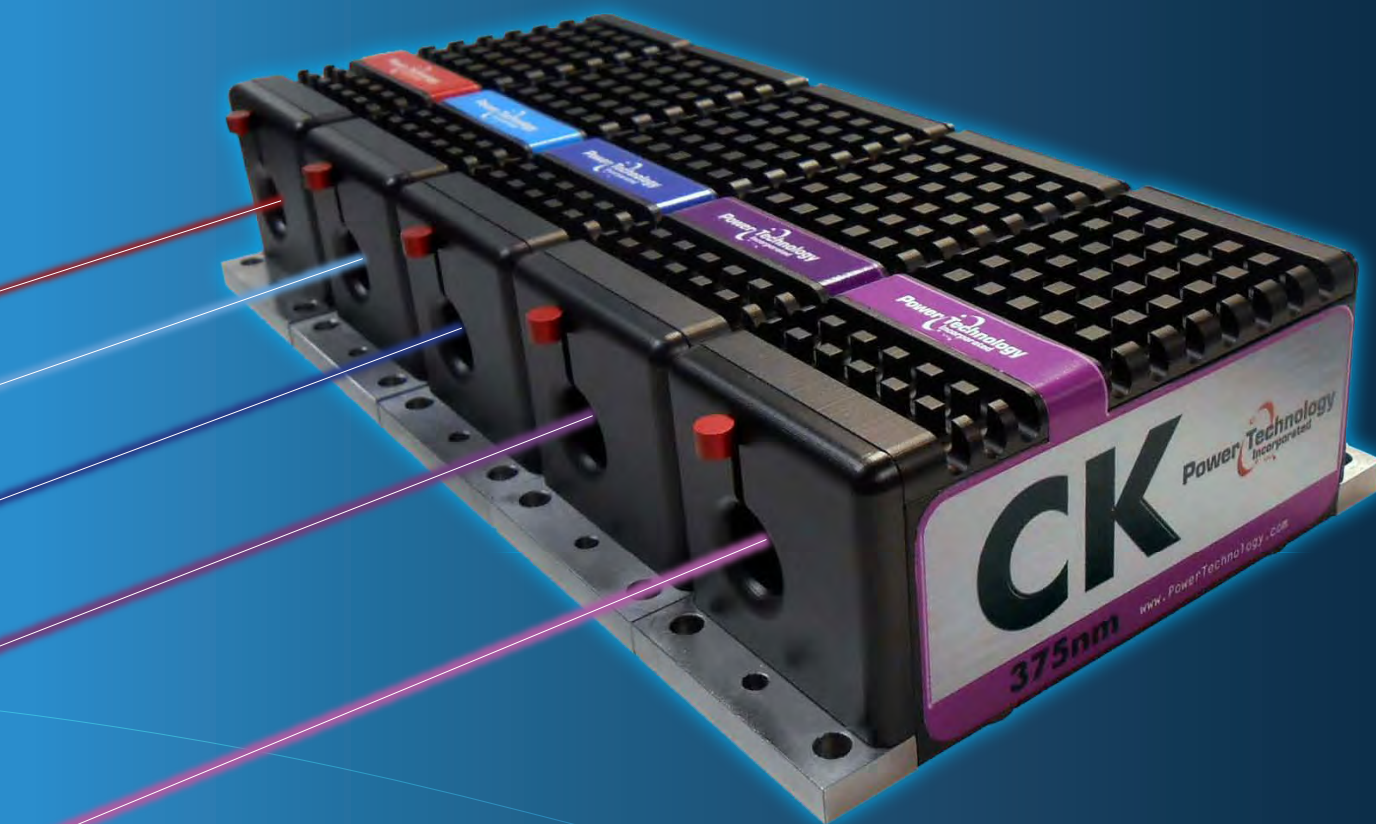


CK INSTRUMENT QUALITY LASER MODULE

with Beam Pointing Stability



The instrument quality CK laser module has been designed for your most demanding scientific and analytical applications. Created with an industry standard footprint in mind, the CK specifically addresses the needs of high-end OEM applications requiring superior optical quality and ultra-stable wavelength & output powers. The CK features an onboard microprocessor allowing for advanced user control and monitoring, as well as a precision current source and ultra-stable temperature control. Beam circulation is also available.

- Beam pointing stability < 5 μ Rad/°C
- Stable output power
- Onboard microprocessor
- Adjustable focus
- USB & RS-232 communications

Optional Features

- Analog modulation, or TTL digital modulation
- Circularized or standard elliptical beam

Applications

- Laser-induced fluorescence
- Data storage
- Flow cytometry
- Spectroscopy
- Holography

The instrumental quality CK laser module has been designed specifically to address the needs of high-end OEM applications requiring superior optical quality and ultra-stable wavelength and output powers.

The CK features an onboard microprocessor allowing for advanced integration and user control. Additionally, the CK contains a precision current source and ultra-stable temperature control.

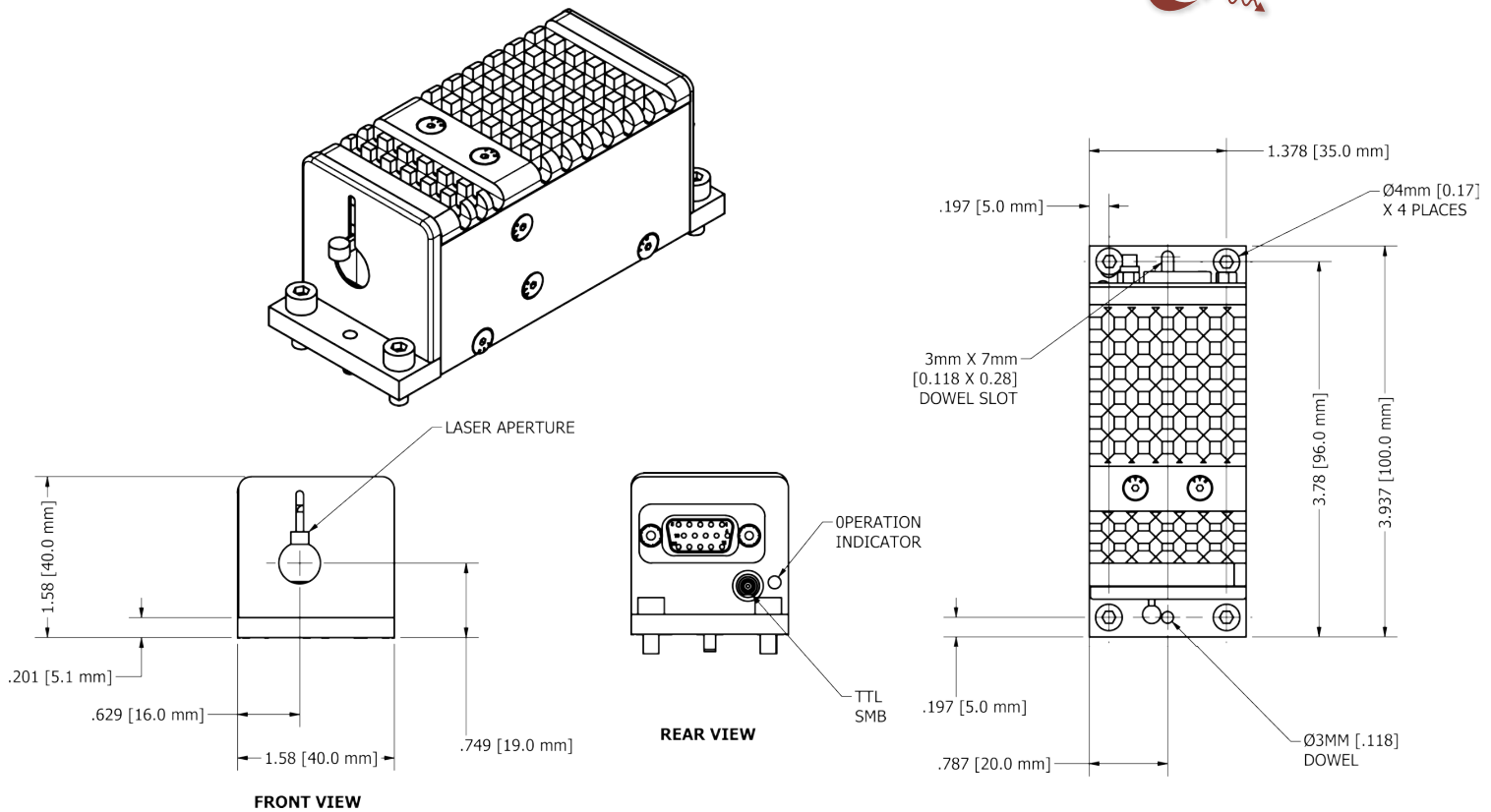
To promote stability of wavelength and output powers, a precision current source as well as a precision temperature control has been incorporated in the module. The low operating voltage helps to create less heat waste increasing diode lifetime, efficiency, and reliability.

The mechanical design of the CK allows users to replace more expensive lasers without sacrificing performance.

Specifications

	CK(375-50)G35	CK(405-100)G35	CK(450-50)G35	CK(488-50)G35	CK(635-15)G36	CK(640-40)G16
Wavelength	375	405	450	488	635	640
Output Power (mW)	50	100	50	50	15	40
Beam Size @ Exit [mm ²]	1.04x2.60	1.05x2.34	0.89x2.54	1.19x2.86	1.06x3.96	1.18x2.47
Divergence [mrad]	0.47x0.24	0.49x0.23	0.65x0.23	0.53x0.22	0.78x0.49	0.70x0.36
Typical Supply Voltage (VDC)	8	8	8	8	5	5
Typical Supply Current (ADC)	0.8	0.8	0.8	0.8	0.8	0.8
Typical LD Temperature Stability (C°)	0.001	0.001	0.001	0.001	0.001	0.001
Noise RMS (10Hz-100MHz) %	0.5	0.5	0.5	0.5	0.5	0.5
Power Stability (8h APC mode) %	1	1	1	1	1	1
Beam Pointing Stability (per C)	<5 μ Rad	<5 μ Rad	<5 μ Rad	<5 μ Rad	<5 μ Rad	<5 μ Rad
Polarization	Linear	Linear	Linear	Linear	Linear	Linear
Polarization Ratio at Full Power	>100:1	>100:1	>100:1	>100:1	>100:1	>100:1
Dimensions (mm)	40x40x100	40x40x100	40x40x100	40x40x100	40x40x100	40x40x100
Weight (lbs)	0.65	0.65	0.65	0.65	0.65	0.65
Warranty	1 year	1 year	1 year	1 year	1 year	1 year

* Additional Specifications on Page 3



Specifications

	CK(643-90)G16	CK(660-50)G36	CK(660-100)G16	CK(685-40)G16	CK(730-50)G36	CK(783-40)G36
Wavelength	643	660	660	685	730	783
Output Power (mW)	90	50	100	40	50	40
Beam Size @ Exit [mm ²]	1.18x2.47	1.33x1.86	1.18x2.00	1.06x2.48	1.20x2.40	1.21x2.15
Divergence [mrad]	0.70x0.36	0.64x0.46	0.72x0.43	0.83x0.37	0.78x0.29	0.83x0.47
Typical Supply Voltage (VDC)	5	5	5	5	5	5
Typical Supply Current (ADC)	0.8	0.8	0.8	0.8	0.8	0.8
Typical LD Temperature Stability (C°)	0.001	0.001	0.001	0.001	0.001	0.001
Noise RMS (10Hz-100MHz) %	0.5	0.5	0.5	0.5	0.5	0.5
Power Stability (8h APC mode) %	1	1	1	1	1	1
Beam Pointing Stability (per C)	<5µRad	<5µRad	<5µRad	<5µRad	<5µRad	<5µRad
Polarization	Linear	Linear	Linear	Linear	Linear	Linear
Polarization Ratio at Full Power	>100:1	>100:1	>100:1	>100:1	>100:1	>100:1
Dimensions (mm)	40x40x100	40x40x100	40x40x100	40x40x100	40x40x100	40x40x100
Weight (lbs)	0.65	0.65	0.65	0.65	0.65	0.65
Warranty	1 year	1 year	1 year	1 year	1 year	1 year