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MCD Series 300ps Microchip Lasers

Key Features

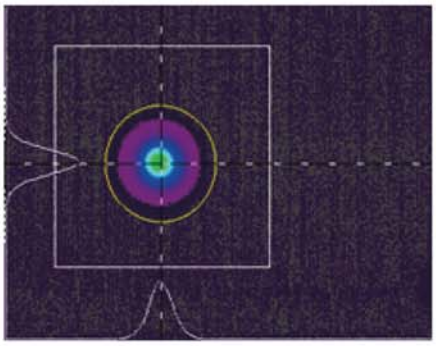
- Pulse width down to 300ps
- Pulse energy up to 150μJ
- Repetition rates up to 1kHz
- Excellent beam quality
- Sealed design, high reliability

Applications

LIMS
Seed Laser
Laser Induced Fluorescence
Nonlinear Optical Measurement
Laser Micromachining
Flourescence Lifetime Measurement

MCD Series								
Wavelength (nm)		1064		532		355		266	
Repetition rate (kHz)		0.1	1	0.1	1	0.1	1	0.1	1
Average power (mW)		15	110	7.5	50	3	20	1	5
Pulse energy (μJ)		150	110	75	50	30	20	10	5
Pulse width (ns)		0.35		0.3		0.3		0.3	
Power stabilty (8h)		±3%		±3%		±3%		±3%	
Beam profile		TEM_{00}		TEM_{00}		TEM_{00}		TEM_{00}	
Beam divergence full angle (mrad)	Horizontal @1/e²	Typ.6		Typ.5		Typ.5		Typ.5	
	Vertical @1/e²	Typ.6		Typ.5		Typ.5		Typ.5	
Polarization		> 100:1		> 100:1		> 100:1		> 100:1	
System parameters									
Supply power voltage		100-240 VAC,50/60 Hz							
Modulation input		TTL 0-5V, SMA input							
Control interface		RS232、USB							
Power consumption (W)		<15	<25	<20	<30	<25	<35	<30	<40
Power dimensions (mm)		146×76×150 (W×H×L)							
Laser head dimensions (mm)		45×30×120 (W×H×L)							
Operation temperature (℃)		15-35							
Storage temperature (℃)		0-50							

Typical Pulse



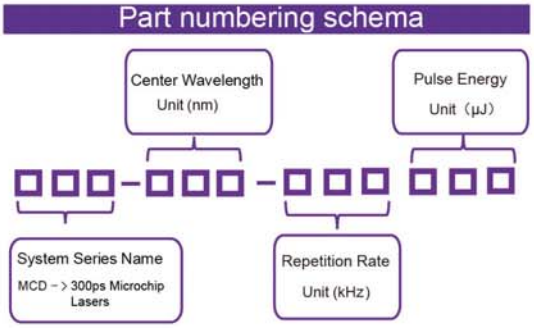
Beam Profile

Ordering information

MCD Series Model List			
Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1064	MCD-1064-0.1-150	0.1	150
	MCD-1064-1-110	1	110
532	MCD-532-0.1-075	0.1	75
	MCD-532-1-050	1	50
355	MCD-355-0.1-030	0.1	30
	MCD-355-1-020	1	20
266	MCD-266-0.1-010	0.1	10
	MCD-266-1-005	1	5

* All specifications are subject to change without prior notice

Part numbering schema



Mechanical Specifications