3SPGroup





MLT-PL-R-0EM45 MLT-PL-P-0EM45

Series

KeyFeatures

High energy (up to 100µl)

PM version available up to 150µJ

Wide range of fixed pulse duration
available from 500ps to 1.25µs

Excellent beam quality (M²<1.1)

Burst mode

Adjustable pulse width on few ns

Monitor output

Internal or external TTL or LVDS trigger

Maintenance free operation

Highly reliable laser diode pumps

Compact & rugged design

Low power consumption

Air cooled

Applications

Custom versions available

LIDAR
Target ID
Mapping
Telemetry
3D scanning
Range finding
Topography scanning
Weather and pollutant detection
OPO pumping
YOUR APPLICATION

For moreInfo

Please contact us at:

North America: 514.748.4848

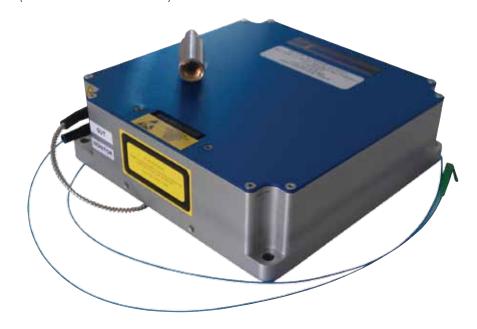
888.922.1044

Europe & Asia: +33 (0) 2 96 04 20 00 or via e-mail at sales@3spgroup.com

LUSKENN Product Line

1.5µm Compact Pulsed Fiber Laser

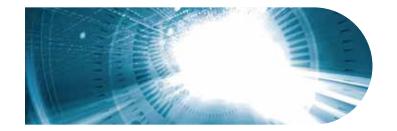
The LUSKENN is a compact high power pulsed fiber laser at 1.5µm providing short pulse duration through a near diffraction limited randomly polarized beam. The MLT-PL-R-OEM45 is optimised for LIDAR, telemetry or range finding application. The design and configuration of this laser render it unique and reliable. Our patented "Injection Technology" allows the use of highly reliable broad area laser diode pumps, for a cost-effective and maintenance- free operation. The all-fibre design guarantees the robustness of the system, without any optical parts to align or to stabilise. The LUSKENN is an open platform for your specific requirements: adjustable pulse width on few ns, internal or external LVDS or TTL trigger, monitor output for synchronization, burst mode for pulse monitoring. The simple integration of the OEM system requires no after-installation service. Power consumption is reduced to the minimum with extended operation temperatures. Obviously, custom configurations are possible, such as polarization maintaining version (MLT-PL-P- OEM45 series).



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LUSKENN Product Line

1.5µm Compact Pulsed Fiber Laser





MLT-PL-R-OEM45

SPECIFICATIONS*

Series

STANDARD CONFIGURATIONS

Parameter	Value	Unit	
Operation mode	Pulsed	-	
Seed laser wavelength	1550 typ.	nm	Other wavelengths available
Average output power	up to 7	W	
Pulse duration	from 0.5 to 1250	ns	Fixed duration in the range
Pulse repetition frequency	from 5 to 2000	kHz	in a limited range depending on pulse width and ASE
Output pulse energy	≤ 150	μJ	
Peak power	up to 17	kW	
Output power tunability	1 – 100	%	
Long term stability (RMS, over 1h@25°C)	<+/-1	%	
Polarization	Random	-	PM optional
Output fibre length	typ. 50	cm	
Output fibre termination	Collimated beam	-	
Laser linewidth (FWHM)	<0.2	nm	0.15 nm typical
Typical beam diameter @1/e ²	2,4	mm	
Beam quality M ²	<1.1	-	
Dimensions	150 x 150 x 45	mm ³	
Weight	1200	g	
Operation Temperature	0 to +50	°C	-35 to +65 optional
Control mode	Continuous operation or burst	-	
Connector	SAMTEC SMM-115-02-SD-30		
Operating voltage DC	12-36	٧	
Typ. power consumption (nom. power @ 25°C)	<150	W	

Ordering Information:

MLT-PL-R-0EM45-xx-yy-zz

MLT-PL-P-0EM45-xx-yy-zz

xx = pulse duration in ns

yy = pulse repetition frequency in kHz

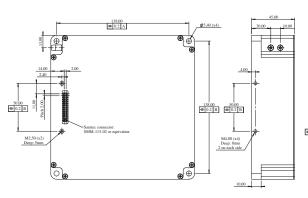
 $zz = energy in \mu J$

Options:

- Adjustable pulse duration (few ns)
- Internal or external trigger
- TTL or LVDS trigger
- Collimated output
- Burst mode
- Monitor output
- Customised specs on request
- Extended warranty

Operating and safety considerations 3SPGroup Fibre lasers comply with CE, FDA & RoHS. All 3SPGroup Fibre Lasers are patent pending.

The 3SPGroup Fibre lasers emit both invisible Class IV and visible Class II radiations. Direct and scattered radiation can be harmful to the human eye. Proper laser safety eyewear must be worn during operation. Information in this document is subject to change without notice.



Revised March 2012

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190,00

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Deep, Seen

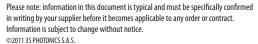


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ORDERING INFO

