

Retraction Of Old Devices

Waste electrical products must not be disposed of with household waste. This equipment should be taken to your local recycling centre for safe treatment.

WEEE-Reg.-No. DE 96457402



Laser Delivery Report



INVISIBLE
LASER RADIATION AVOID DIRECT
EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT
EN 60825-1

P _o = max.	84 mW
P _p = max.	1400 mW
t=max.	500 ps
f=max.	80 MHz
λ=	1052 nm

Laser Head:

Model No. LDH-D-C-1060
Serial No.: 1019216

- Optics:**
- Collimator
 - Fibre Coupler, FC Connector
 - Fibre Coupler, SMA Connector
 - Single Mode Fibre
 - polarisation maintaining
 - Multi Mode Fibre
 - Fibre Collimator

Wavelength: 1042 nm - 1059 nm

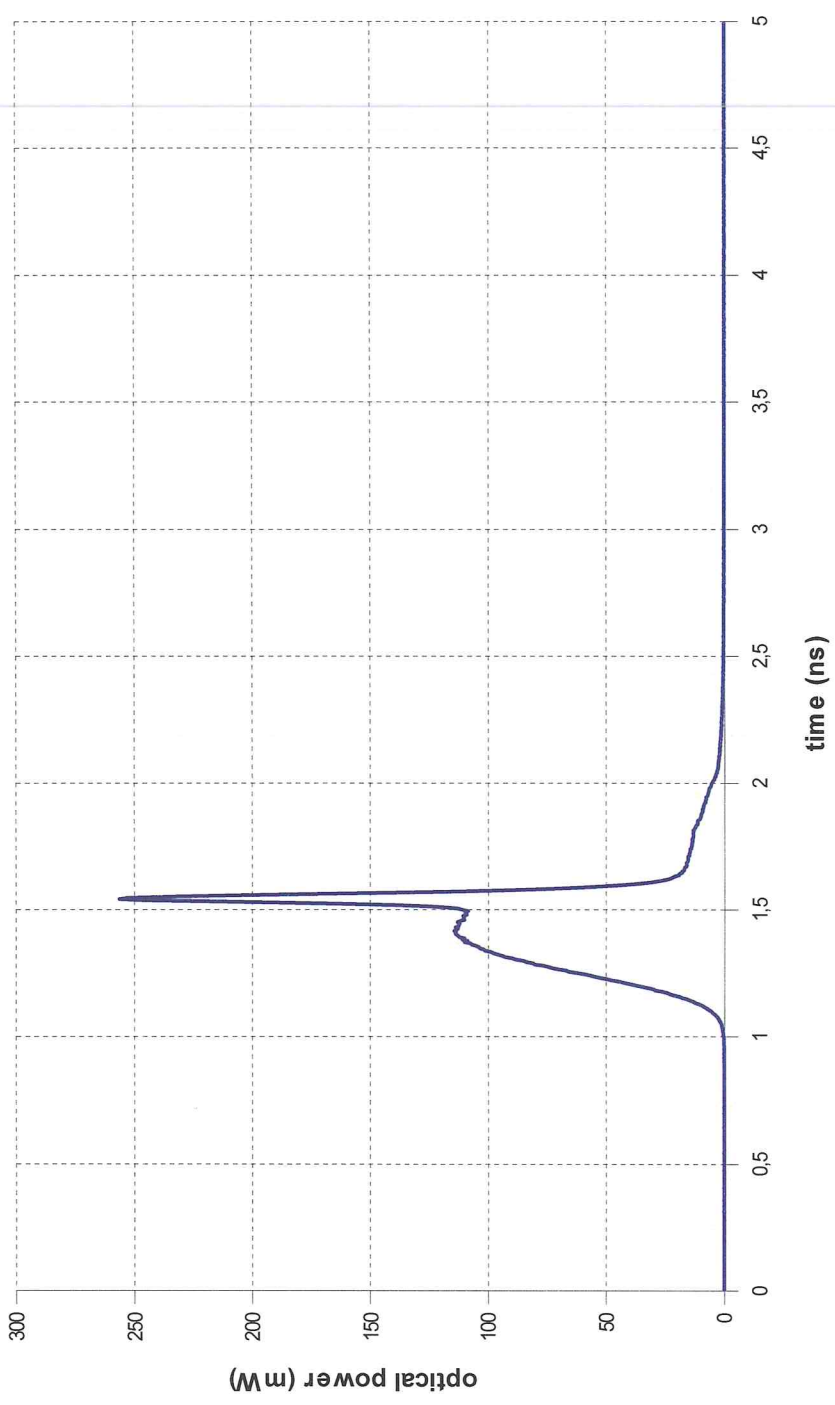
Average Optical Power:

Repetition frequency	Max. optical power (10% calibr. error)
cw	50,4 mW
80 MHz	20,2 mW
40 MHz	11,5 mW
20 MHz	5,4 mW
10 MHz	2,8 mW
5,0 MHz	1,4 mW
2,5 MHz	0,66 mW

Minimum Pulse Width: 54 ps

Note:
Output power is measured at shipping time at the collimator's aperture. At the end of an optional fibre you will measure lower values, due to coupling losses. The coupling efficiency is different for each laser head. Typical values are 40% for single mode and 80 % for multi mode fibres. After hundreds of operating hours the maximum output power may begin to decrease.

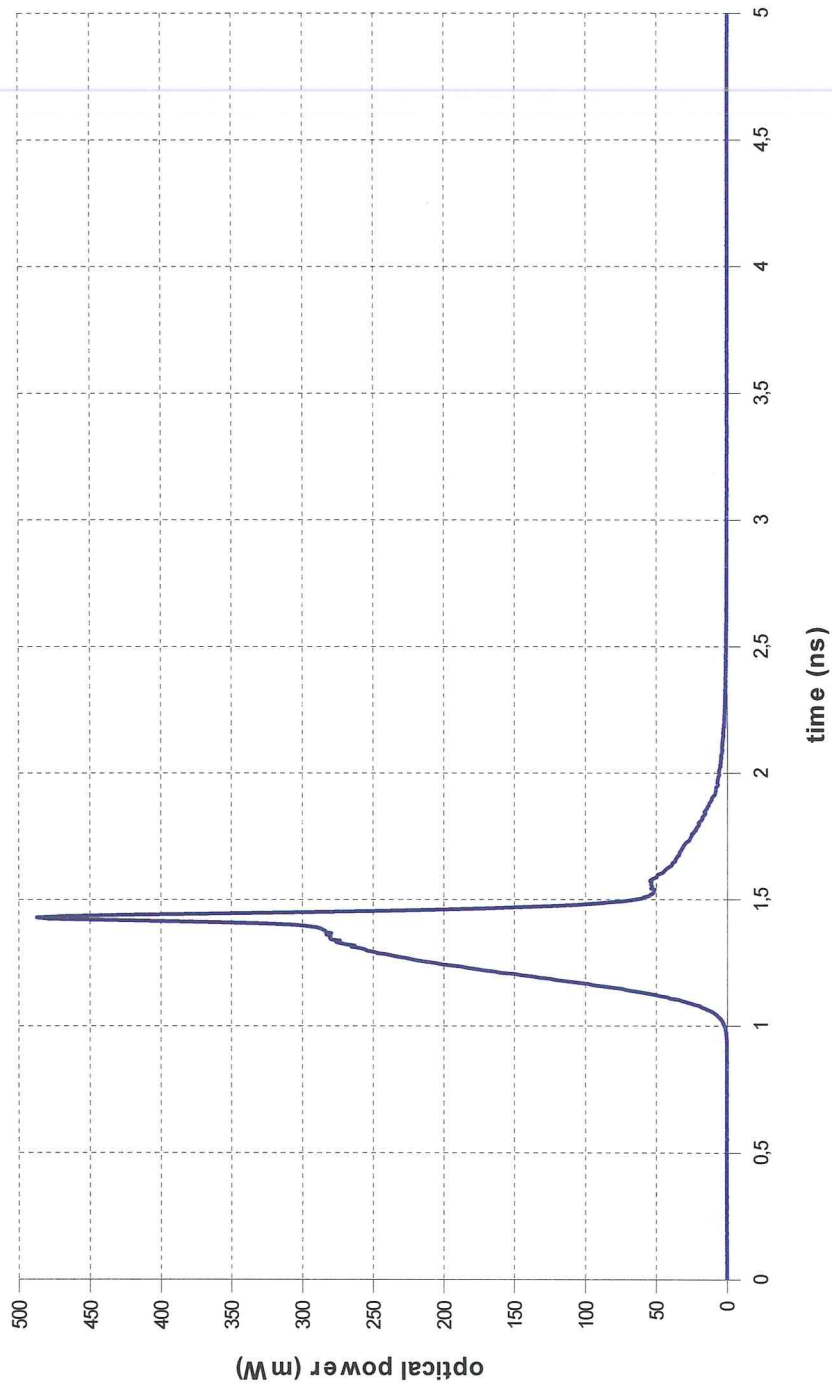
For more data of the optical pulses see diagrams on the next pages.
Note that all timing responses are convoluted with the Instrument Response Function (IRF) of the detection system as indicated in the curve plot. This means that the laser pulses are actually narrower than they appear here.



Laser Head: 1019216

peak power: 256 mW
 pulse energy: 51 pJ
 FWHM: 54 ps
 IRF: 30 ps

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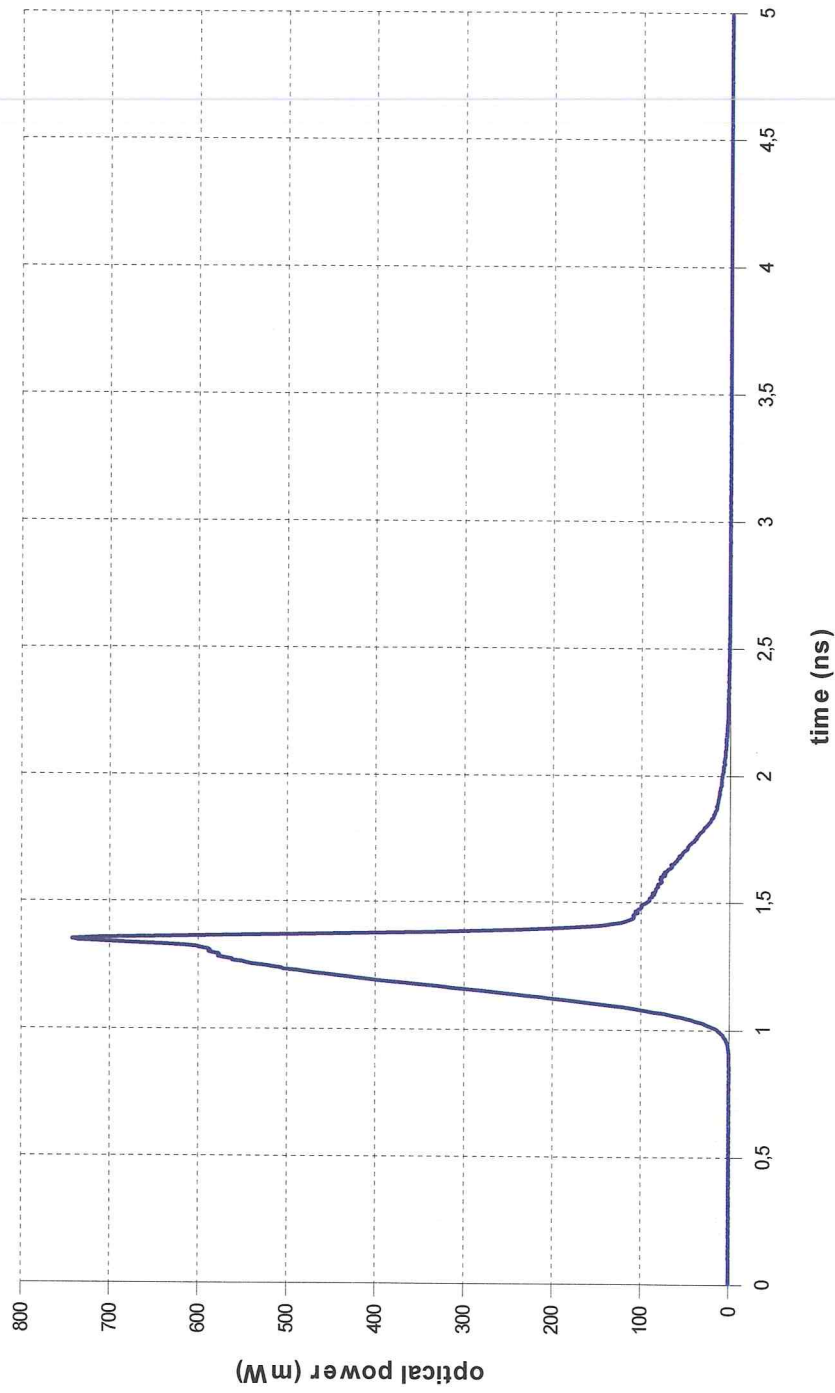


Laser Head: 1019216

peak power: 487 mW
 pulse energy: 101 pJ
 FWHM: 171 ps
 IRF: 30 ps

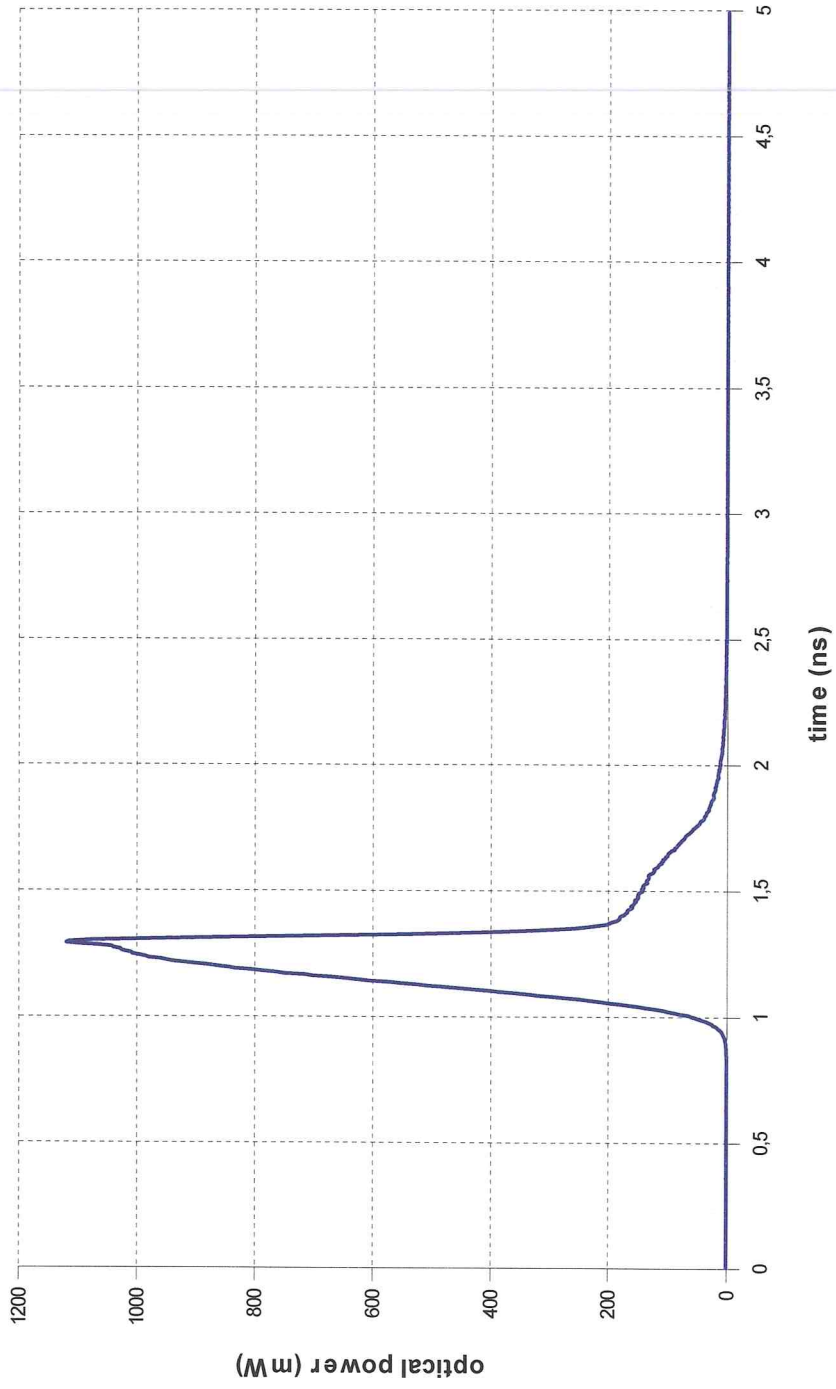
wavelength: 1042,8 nm
 average power: 8,1 mW
 @ rep. frequency: 80 MHz

PicoQuant GmbH 2012



Laser Head: 1019216
 PicoQuant GmbH 2012

wavelength:	1059,4 nm	peak power	743 mW
average power	14,2 mW	pulse energy:	177 pJ
@ rep. frequency	80 MHz	FWHM:	195 ps
		IRF:	30 ps



Laser Head: 1019216
 wavelength: 1058,5 nm
 average power: 22,4 mW
 @ rep. frequency: 80 MHz
 peak power: 1120 mW
 pulse energy: 280 pJ
 FWHM: 190 ps
 IRF: 30 ps

