

MicroLaser Product Guide

Black: Traditional Products

Green: Recently Introduced Products

Name	Wvl. (nm)	E (uJ) per pulse	Pulse Width (ns)	PRF (std) (kHz)	P (mW)	Size L x W x H (mm^3)	Controller	Notes *
1064 nm microlasers								
PNP-005025-x00	1064	>50 (Typ 70)	<0.5	1	70 (typ)	311x100x156.1	C	T ; F ; CE
SNP-08E-DM1	1064	>8.0 (Typ 9.5)	<1.0	2-8 (Typ 6.5)	60 (typ)	115x29x35.5	M	
NP-15010-x00	1064	(Typ 5)	<1.0	10-20 (Typ 11)	>50 (55 typ)	100x22.4x31	P	T ; CE
NP-10820-x00	1064	>8.0 (Typ 9.5)	<1.0	2-8 (Typ 6.5)	60 (typ)	100x22.4x31(std)	P	T ; CE
NP-10620-x00	1064	>6 (Typ 7.5)	<1.0	5-9 (Typ 7.5)	55 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; F ; CE
NP-10220-F02	1064	>2 (Typ 5) (at fiber output)	>1.2	4-8.5 (Typ 7.5)	40 (typ) (at fibre output)	54x35x29	P	Fibre coupled;
NP-10220-F03	1064	>2 (Typ 5) (at fiber output)	>1.2	4-8.5 (Typ 7.5)	40 (typ) (at fibre output)	54x35x29	P	Fibre coupled;
532 nm microlasers								
PNG-002025-x00	532	>20 (Typ 25-30)	<0.5	1	25 (typ)	311x100x156.1	C	T ; F ; CE
SNG-03E-000 Beta	532	>3 (Typ 3.5-4)	<0.6	5-10 (Typ 8)	25 (typ)	115x29x35.5	M	
MNG-06P-R11	532	>0.4 (Typ 2)	<0.6	8-15 (Typ 11)	>20 (25 typ)	62x38x29	M	
NG-10320-x00	532	>3 (Typ 3.5)	<0.6	5-10 (Typ 8)	25 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; F ; CE
355 nm microlasers								
PNV-001525-x00	355	>15 (Typ 20)	<0.5	1	20 typ	311x100x156.1	C	T ; F ; CE
PNV-001025-x00	355	>10 (Typ 15-20)	<0.5	1	15 typ	311x100x156.1	C	T ; F ; CE
SNV-04P-000	355	>0.4 (Typ 0.6)	<0.6	>5 (Typ 8)	>4 (6.5 typ)	180x55x35.5	M	
266 nm microlasers								
SNU-02P-000	266	(Typ 0.55)	<0.5	6-10 (Typ 8)	>2 (4 typ)	180x55x35.5	M	
1535 nm microlasers								
NE-10620-R07	1535	>6 (Typ 8)	<5	>2 (Typ 3)	24	100x22.4x31	PS-01404-R07	CE
NE-10620-100	1535	>6 (Typ 8)	<6	1-3 (Typ 3)		100x22.4x31(std)	P	T ; CE

* See options details next page

Product Name Prefixes

- Nx = MicroChip microlasers (original generation)
- MNx = MicroChip microlasers (Short package; Scheduled to be ROHS compliant)
- SNx = Sealed MicroChip microlasers (Scheduled to be ROHS compliant)
- PNx = PowerChip microlasers (scheduled to be ROHS compliant)

Power Supply

- PS versions for MicroChip (all CE certified except DC Board):
- P denotes PS-0140x-yyy (these power supplies are not RoHS compliant)
- With x = 1 for 115V, x = 2 for 230V, 4 = DC Board
- yyy = 100, 150, or 300, except for Note F
- 100 = standard model
- 150 = computer on/off option, for remote control and for laser on/off faster than from cold
- 300 = Driver PCB for MicroChip laser head (only for DC mode x = 4 versions)

PCR versions for PowerChip CDRH compliant:

- C denotes PCR-240500-100

Sizes

- Std = Standard version
- F = Trigger output or Frequency customized version

Laser Controller

- MLC versions (these controllers are RoHS compliant):
- M denotes MLC-03A-xR0, with
- x = B (Board version)
- x = M (Module, i.e. protected board)
- x = D (Desk Top for lab bench)

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Not in Compliance with Restriction of Hazardous Substances (RoHS) Directives

Name	Wvl. (nm)	E (uJ) per pulse	Pulse Width (ns)	PRF (std) (kHz)	P (mW)	Size L x W x H (mm ³)	Controller	Notes
1064 nm microlasers								
NP-10820-x00	1064	>8.0 (Typ 9.5)	<1.0	2-8 (Typ 6.5)	60 (typ)	100x22.4x31(std)	P	T ; CE
NP-10620- x00	1064	>6 (Typ 7.5)	<1.0	5-9 (Typ 7.5)	55 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; F; CE
NP-10320-x00	1064	>3 (Typ 7.5)	<1.0	6-10 (Typ 7.5)	25 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; F; CE
NP-10120-x00	1064	>1 (Typ 5)	<1.0	8-13 (Typ 11)	10 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; F; CE
NP-15010-x00	1064	>1 (Typ 5)	<1.0	10-20 (Typ 11)	>50 (55 typ)	100x22.4x31	P	T ; CE
NP-10220-F02	1064	>2 (Typ 5) (at fibre output)	>1.2	4-8.5 (Typ 7.5)	40 (typ) (at fibre output)	54x35x29	P	fibre coupled
532 nm microlasers								
NG-10320- x00	532	3 (Typ 3.5)	<0.6	5-10 (Typ 8)	25 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; F ; CE
NG-10120- x00	532	1	<0.6	8-13	10 (typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; CE
NG-11010- x00	532	(Typ 2)	<0.6	8-13 (Typ 11)	>10 (15 typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; CE
NG-11510- x00	532	(Typ 3.5)	<0.6	5-9 (Typ 8)	>15 (25 typ)	100x22.4x31(std) 150x37.4x31(F)	P	T ; CE
355 nm microlasers								
NV-10210-600	355	(Typ 0.55)	<0.6	8-13	>2 (4 typ)	100x22.4x32	P	CE
NV-10210-700	355	(Typ 0.55)	<0.6	8-13	>2 (4 typ)	100x22.4x32	P	T ; CE
266 nm microlasers								
NU-10210-600	266	(Typ 0.55)	<0.5	6-10	>2 (4 typ)	100x22.4x31	P	CE
NU-10210-700	266	(Typ 0.55)	<0.5	6-10	>2 (4 typ)	100x22.4x31	P	T ; CE
1535 nm microlasers								
NE-10620-100	1535	>6 (Typ 8)	<6	1-3 (Typ 3)		100x22.4x31(std) 150x37.4x31(F)	P	T ; CE

Customer specific models – such as NP-10620-GM1, NG-10320-L05, NE-10620-R07, NV-10410-MM1 and all above models with respective options -- are not in compliance with RoHS. Customers should consult the factory for RoHS compliance policies.

Notes :

T : CDRH model available, specified by ordering an -1yz version. OEM versions are denoted with a suffix of -0yz.

F : Frequency of pulse repetition rate can be customized.

→ Internal mode: **(for PowerChip only)**: Customer can specify one repetition rate within 100 to 1000Hz. Other rates are also available. Specified by x30 + rep rate.

→ External mode **(for PowerChip only)**:

- Customer can select repetition rate within 100 to 1000Hz with help of an external trigger signal generator. Optical performance is specified only at one repetition rate, indicated by the customer. (Specified by x40 + rep rate). Specification for three repetition rates (within 50 to 1000Hz or 20 to 200Hz) available on request.
- External mode – Auto On (The customer uses an external trigger signal generator that stimulates lasing automatically. "Auto On" is, by definition, not CDRH compliant). (Specified by 050 + rep rate.)

→ Single pulse/Fixed frequency/Triggered output **(for standard (Not-sealed) MicroChip only)**

- Trigger output: A photodiode monitors the output, providing a trigger signal indicating lasers pulses. The laser runs in standard "free running" mode. (Specified by - x10).
- Single pulse: The laser emits a "single pulse" at a frequency up to 100Hz. Units are built and specified at 500Hz. (Specified by – x20).
- Fixed frequency: The laser is integrated and optimised at factory to be compliant specifications at ONE selected rep rate within 100Hz to 1000Hz (Specified by – x30)

CE = CE Certified

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