

DOT LASERS RED / GREEN



Illustrative representation

These laser modules are available in both plastic and glass optics.
They are available in both CW mode and modulated.

DOT LASER RED

LASER DIODE MODULES WITH CIRCULAR BEAM

DESCRIPTION	WAVE-LENGTH (nm)	OUTPUT POWER (mW)	BEAM DIAMETER (mm)	BEAM DIVERGENCE (mrad)	OPERATING VOLTAGE (V)	OPERATING TEMPERATURE (°C)	OUTLINE DIMENSIONS Ø x L (mm)	OPTIONAL MODULATION
IMM1020-635-1-C	635	0.95	0.7	0.6	3 - 5.5	-10 - +45	10 x 20	
IMM1020-635-10-C	635	10	0.7	0.6	3 - 5.5	-10 - +45	10 x 20	
IMM1020-655-1-C	655	0.95	0.7	0.6	3 - 5.5	-10 - +65	10 x 20	
IMM1020-655-10-C	655	10	0.7	0.6	3 - 5.5	-10 - +45	10 x 20	

MODULATED

IMM1040-635-1-C-X-Y	635	0.95	1	0.4	4.5 - 5.5	-10 - +45	10 x 40	0 - 25 kHz
IMM1040-635-10-C-X-Y	635	10	1	0.4	4.5 - 5.5	-10 - +45	10 x 40	0 - 25 kHz
IMM1040-655-1-C-X-Y	655	0.95	1	0.4	4.5 - 5.5	-10 - +65	10 x 40	0 - 25 kHz
IMM1040-655-10-C-X-Y	655	10	1	0.4	4.5 - 5.5	-10 - +65	10 x 40	0 - 25 kHz

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DOT LASER RED

LASER DIODE MODULES WITH ELLIPTICAL BEAM

DESCRIPTION	WAVE-LENGTH (nm)	OUTPUT POWER (mW)	BEAM DIAMETER (mm)	BEAM DIVERGENCE (mrad)	OPERATING VOLTAGE (V)	OPERATING TEMPERATURE (°C)	OUTLINE DIMENSIONS Ø x L (mm)	OPTIONAL MODULATION
IMM1020-635-1-E	635	0.95	0.7 x 2	0.6	3 - 5.5	-10 - +45	10 x 20	
IMM1020-635-10-E	635	10	0.7 x 2	0.6	3 - 5.5	-10 - +45	10 x 20	
IMM1020-655-1-E	655	0.95	0.7 x 2	0.6	3 - 5.5	-10 - +65	10 x 20	
IMM1020-655-10-E	655	10	0.7 x 2	0.6	3 - 5.5	-10 - +65	10 x 20	

MODULATED

IMM1040-635-1-E-X-Y	635	0.95	1 x 3	0.4	4.5 - 5.5	-10 - +45	10 x 40	0 - 25 kHz
IMM1040-635-5-E-X-Y	635	5	1 x 3	0.4	4.5 - 5.5	-10 - +45	10 x 40	0 - 25 kHz
IMM1040-635-20-E-X-Y	635	20	1 x 3	0.4	4.5 - 5.5	-10 - +45	10 x 40	0 - 25 kHz
IMM1040-655-1-E-X-Y	655	0.95	1 x 3	0.4	4.5 - 5.5	-10 - +65	10 x 40	0 - 25 kHz
IMM1040-655-5-E-X-Y	655	5	1 x 3	0.4	4.5 - 5.5	-10 - +65	10 x 40	0 - 25 kHz
IMM1040-655-50-E-X-Y	655	50	1 x 3	0.4	4.5 - 5.5	-10 - +65	10 x 40	0 - 25 kHz

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DOT LASER RED

GENERAL	VALUE	NOTE
Wavelength	660 nm	
Output power (max.)	60 mW	
Power stability	< 6 % (typ.)	Evaluated for the Laser Line Collimator over a range of -10 °C to +80 °C
Beam shape	Collimated / Focused	On request
Laser safety class	1 - 3B	Depending on laser diode
System storage temperature range	- 20 °C to +70 °C	
ELECTRONICS	VALUE	NOTE
Supply voltage	9 V	
Operating current	240 mA max.	
Galvanically isolated		On request
Modulation	analog	

APPLICATIONS

- Pointing
- Alignment lasers
- Laboratory instruments
- Measuring instruments
- Sensors

FEATURES

- High output power range
- Development and production in Germany „Made in Germany“
- Various sizes
- Customized solutions available
- More wavelength on request

Subject to technical modifications. As per October 2025.

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DOT LASER GREEN

LASER DIODE MODULES WITH CIRCULAR BEAM

DESCRIPTION	WAVE-LENGTH (nm)	OUTPUT POWER (mW)	BEAM DIAMETER (mm)	BEAM DIVERGENCE (mrad)	OPERATING VOLTAGE (V)	OPERATING TEMPERATURE (°C)	OUTLINE DIMENSIONS Ø x L (mm)	OPTIONAL MODULATION
IMM1040-520-1-C-X-Y	520	0.95	1	0.4	2.5 - 10	-10 - +60	10 x 40	0 - 200 kHz
IMM1040-520-10-C-X-Y	520	10	1	0.4	2.5 - 10	-10 - +60	10 x 40	0 - 200 kHz

LASER DIODE MODULES WITH ELLIPTICAL BEAM

DESCRIPTION	WAVE-LENGTH (nm)	OUTPUT POWER (mW)	BEAM DIAMETER (mm)	BEAM DIVERGENCE (mrad)	OPERATING VOLTAGE (V)	OPERATING TEMPERATURE (°C)	OUTLINE DIMENSIONS Ø x L (mm)	OPTIONAL MODULATION
IMM1040-520-1-E-X	520	0.95	1 x 3	0.4	2.5 - 10	-10 - +60	10 x 40	0 - 200 kHz
IMM1040-520-5-E-X	520	5	1 x 3	0.4	2.5 - 10	-10 - +60	10 x 40	0 - 200 kHz
IMM1040-520-50-E-X	520	50	1 x 3	0.4	2.5 - 10	-10 - +60	10 x 40	0 - 200 kHz

GENERAL	VALUE	NOTE
Wavelength	520 nm	
Output power (max.)	35 mW	
Power stability	< 6 % (typ.)	Evaluated for the Laser Line Collimator over a range of -10 °C to +80 °C
Beam shape	Collimated / Focused	On request
Laser safety class	1 - 3B	Depending on laser diode
System storage temperature range	- 20 °C to +70 °C	
ELECTRONICS	VALUE	NOTE
Supply voltage	5 V	
Operating current	240 mA max.	
Galvanically isolated		On request
Modulation	analog	

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DOT LASER GREEN

APPLICATIONS

- Pointing
- Alignment lasers
- Laboratory instruments
- Measuring instruments
- Sensors

FEATURES

- Compact design for integration in larger systems
- Collimated / Focused
- Application: harsh environments
- Custom: wavelength, aperture angle, output power and modulation
- High output power range
- Development and production in Germany „Made in Germany“
- Various sizes
- Low power consumption

Subject to technical modifications. As per October 2025.

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**WE LOOK
FORWARD**
to solving your
challenge

