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635nm D-Series (Dot) Laser Diode Module

Model	Wave length	Aperture	Output Power	Divergence (mrad)	Beam Size	Lens	Dimension
EL63D05IP1	635nm	Φ 2.5 mm	< 3.2mw	< 0.6	<1 mm (@1m)	Plastic lens	Φ 6.5 x12mm
EL63D05IG1	635nm	Φ 4.0 mm	< 2.5mw	< 0.2	Φ 5mm (@10m)	Optical Glass	Φ 8 x35mm
EL63D05IG2	635nm	Φ 5.0 mm	< 3.2mw	< 0.3	3x6 mm (@5m)	Optical Glass	Φ 10 x35mm
EL63D05IG3	635nm	Φ 6.0 mm	< 3.2mw	< 0.3	4x8mm (@10m)	Optical Glass	Φ 12 x40mm
EL63D05IG4	635nm	Φ 6.0 mm	< 3.5mw	< 0.2	10mm (@20m)	Optical Glass	Φ 14x50mm
EL63D05IG5	635nm	Φ 7.0 mm	< 2.5mw	< 0.1	10mm (@30m)	Optical Glass	Φ 16x60mm
EL63D10IP1	635nm	Φ 2.5 mm	< 6.5mw	< 0.6	<1 mm (@1m)	Plastic lens	Φ 6.5 x12mm
EL63D10IG1	635nm	Φ 4.0 mm	< 5.0mw	< 0.2	Φ 5mm (@10m)	Optical Glass	Φ 8 x35mm
EL63D10IG2	635nm	Φ 5.0 mm	< 7.0mw	< 0.3	3x6 mm (@5m)	Optical Glass	Φ 10 x35mm
EL63D10IG3	635nm	Φ 6.0 mm	< 7.0mw	< 0.3	4x8mm (@10m)	Optical Glass	Φ 12 x40mm
EL63D10IG4	635nm	Φ 6.0 mm	< 8.0mw	< 0.2	10mm (@20m)	Optical Glass	Φ 14x50mm
EL63D10IG5	635nm	Φ 7.0 mm	< 5.0mw	< 0.1	10mm (@30m)	Optical Glass	Φ 16x60mm
EL63D20IG1	637nm	Φ 4.0 mm	< 10.0mw	< 0.2	Φ 5mm (@10m)	Optical Glass	Φ 10 x35mm
EL63D20IG2	637nm	Φ 5.0 mm	< 13.0mw	< 0.3	3x6 mm (@5m)	Optical Glass	Φ 12 x40mm
EL63D20IG3	637nm	Φ 6.0 mm	< 14.0	< 0.3	4x8mm (@10m)	Optical Glass	Φ 14x50mm
EL63D20IG4	637nm	Φ 6.0 mm	< 16.0	< 0.2	10mm (@20m)	Optical Glass	Φ 16x60mm
EL63D20IG5	637nm	Φ 7.0 mm	< 10.0	< 0.1	10mm (@30m)	Optical Glass	Φ 20x70mm
EL63D30IG1	638nm	Φ 4.0 mm	< 15.0	< 0.2	Φ 5mm (@10m)	Optical Glass	Φ 10 x35mm
EL63D30IG2	638nm	Φ 5.0 mm	< 22.0	< 0.3	3x6 mm (@5m)	Optical Glass	Φ 12 x40mm
EL63D30IG3	638nm	Φ 6.0 mm	< 24	< 0.3	4x8mm (@10m)	Optical Glass	Φ 14x50mm
EL63D30IG4	638nm	Φ 6.0 mm	< 18.0	< 0.2	Φ15mm(@30m)	Optical Glass	Φ 16x60mm
EL63D30IG5	638nm	Φ 7.0mm	< 15.0	< 0.1	Φ 15 mm (@50m)	Optical Glass	Φ 20x70mm
EL63D40IG1	638nm	Φ 4.0 mm	< 20.0	< 0.2	Φ 5mm (@10m)	Optical Glass	Φ 10 x35mm
EL63D40IG2	638nm	Φ 5.0 mm	< 28.0	< 0.3	3x6 mm (@5m)	Optical Glass	Φ 12 x40mm
EL63D40IG3	638nm	Φ 6.0 mm	< 30.0	< 0.3	4x8mm (@10m)	Optical Glass	Φ 14x50mm
EL63D40IG4	638nm	Φ 6.0 mm	< 25.0	< 0.2	Φ 15mm (@10m)	Optical Glass	Φ 16x60mm
EL63D40IG5	638nm	Φ 7.0 mm	< 20.0	< 0.1	Φ 15mm (@50m)	Optical Glass	Φ 20x70mm
EL63D60IG2	640nm	Φ 4.0 mm	< 40.0	< 0.2	Φ 10mm (@20m)	Optical Glass	Φ 14x50mm
EL63D60IG2	640nm	Φ 5.0 mm	< 45.0	< 0.3	4x6 mm (@10m)	Optical Glass	Φ 16x60mm
EL63D60IG3	640nm	Φ 6.0 mm	< 50.0	< 0.3	6x10mm (@20m)	Optical Glass	Φ 20x70mm
EL63D80IG1	640nm	Φ 4.0 mm	< 50.0	< 0.2	Φ 10mm (@20m)	Optical Glass	Φ 14x50mm
EL63D80IG2	640nm	Φ 5.0 mm	< 60.0	< 0.3	4x6 mm (@10m)	Optical Glass	Φ 16x60mm
EL63D80IG3	640nm	Φ 6.0 mm	< 65.0	< 0.3	6x10mm (@20m)	Optical Glass	Φ 20x70mm
EL63D100IG1	642nm	Φ 4.0 mm	< 60.0	< 0.2	Φ 10mm (@20m)	Optical Glass	Φ 16x60mm
EL63D100IG2	642nm	Φ 5.0 mm	< 75.0	< 0.3	4x6 mm (@10m)	Optical Glass	Φ 20x70mm
EL63D100IG3	642nm	Φ 7.0 mm	< 80.0	< 0.3	6x10mm (@20m)	Optical Glass	Φ 22x70mm
EL63D130IG1	642nm	Φ 4.0 mm	< 75.0	< 0.2	Φ 10mm (@20m)	Optical Glass	Φ 16x60mm
EL63D130IG2	642nm	Φ 5.0 mm	< 100.0	< 0.3	4x6 mm (@10m)	Optical Glass	Φ 20x70mm
EL63D130IG3	642nm	Φ 6.0 mm	< 110.0	< 0.3	6x10mm (@20m)	Optical Glass	Φ 22x70mm
EL63D150IG1	642nm	Φ 4.0 mm	< 85.0	< 0.2	Φ 10mm (@20m)	Optical Glass	Φ 16x60mm
EL63D150IG2	642nm	Φ 5.0 mm	< 120.0	< 0.3	4x6 mm (@10m)	Optical Glass	Φ 20x70mm
EL63D150IG3	642nm	Φ 6.0 mm	< 130.0	< 0.3	6x10mm (@20m)	Optical Glass	Φ 22x70mm

Note:

1. The Dot series laser diode module is customized product. Thus the dimension, dot size, divergence and power output can be customized.
2. If the model listed is not suitable, please advise your detailed requirements, we will design the laser module according to yours.

650nm D-Series (Dot) Laser Diode Modules

Model	Wave length	Aperture	Output Power	Divergence (mrad)	Beam Size	Lens	Dimension
EL65D05IP1	650nm	∅ 2.5 mm	< 3.2mW	< 0.6 mrad	<1 mm (@1m)	Plastic lens	∅ 6.5 x12mm
EL65D05IG1	650nm	∅ 4.0 mm	< 2.5mW	< 0.2 mrad	∅ 5 mm (@10m)	Optical Glass	∅ 8 x35mm
EL65D05IG2	650nm	∅ 5.0 mm	< 3.5mW	< 0.3 mrad	3x6 mm (@5m)	Optical Glass	∅ 10 x35mm
EL65D05IG3	650nm	∅ 6.0 mm	< 3.2mW	< 0.3 mrad	4x8 mm (@10m)	Optical Glass	∅ 12 x40mm
EL65D05IG4	650nm	∅ 6.0 mm	< 3.5mW	< 0.2 mrad	∅ 10mm (@20m)	Optical Glass	∅ 14x50mm
EL65D05IG5	650nm	∅ 7.0 mm	< 2.5mW	< 0.1 mrad	∅ 10mm (@30m)	Optical Glass	∅ 16x60mm
EL65D10IP1	653nm	∅ 2.5 mm	< 6.4mW	< 0.6 mrad	<1 mm (@1m)	Plastic lens	∅ 6.5 x12mm
EL65D10IG1	653nm	∅ 4.0 mm	< 5.0mW	< 0.2 mrad	∅ 5 mm (@10m)	Optical Glass	∅ 8 x35mm
EL65D10IG2	653nm	∅ 5.0 mm	< 7.0mW	< 0.3 mrad	3x6 mm (@5m)	Optical Glass	∅ 10 x35mm
EL65D10IG3	653nm	∅ 6.0 mm	< 6.4mW	< 0.3 mrad	4x8 mm (@10m)	Optical Glass	∅ 12 x40mm
EL65D10IG4	653nm	∅ 6.0 mm	< 7.0mW	< 0.2 mrad	∅ 10mm (@20m)	Optical Glass	∅ 14x50mm
EL65D10IG5	653nm	∅ 7.0 mm	< 6.0mW	< 0.1 mrad	∅ 10mm (@30m)	Optical Glass	∅ 16x60mm
EL65D20IG1	650nm	∅ 4.0 mm	< 10.0mW	< 0.2 mrad	∅ 5 mm (@10m)	Optical Glass	∅ 10 x35mm
EL65D20IG2	655nm	∅ 5.0 mm	< 14.0mW	< 0.3 mrad	3x6 mm (@5m)	Optical Glass	∅ 12 x40mm
EL65D20IG3	655nm	∅ 6.0 mm	< 13.0mW	< 0.3 mrad	4x8 mm (@10m)	Optical Glass	∅ 14x50mm
EL65D20IG4	655nm	∅ 6.0 mm	< 14.0mW	< 0.2 mrad	∅ 10mm (@20m)	Optical Glass	∅ 16x60mm
EL65D20IG5	655nm	∅ 7.0 mm	< 12.0mW	< 0.1 mrad	∅ 10mm (@30m)	Optical Glass	∅ 20x70mm
EL65D30IG1	655nm	∅ 4.0 mm	< 15.0mW	< 0.2 mrad	∅ 5 mm (@10m)	Optical Glass	∅ 10 x35mm
EL65D30IG2	655nm	∅ 5.0 mm	< 21.0mW	< 0.3 mrad	3x6 mm (@5m)	Optical Glass	∅ 12 x40mm
EL65D30IG3	655nm	∅ 6.0 mm	< 19.2mW	< 0.3 mrad	4x8 mm (@10m)	Optical Glass	∅ 14x50mm
EL65D30IG4	655nm	∅ 6.0 mm	< 21.0mW	< 0.2 mrad	∅ 15mm (@30m)	Optical Glass	∅ 16x60mm
EL65D30IG5	655nm	∅ 7.0mm	< 18.0mW	< 0.1 mrad	∅ 15mm (@50m)	Optical Glass	∅ 20x70mm
EL65D40IG1	658nm	∅ 4.0 mm	< 20.0mW	< 0.2 mrad	∅ 5 mm (@10m)	Optical Glass	∅ 10 x35mm
EL65D40IG2	658nm	∅ 5.0 mm	< 30.0mW	< 0.3 mrad	3x6 mm (@5m)	Optical Glass	∅ 12 x40mm
EL65D40IG3	658nm	∅ 6.0 mm	< 26.0mW	< 0.3 mrad	4x8 mm (@10m)	Optical Glass	∅ 14x50mm
EL65D40IG4	658nm	∅ 6.0 mm	< 30.0mW	< 0.2 mrad	∅ 15mm (@30m)	Optical Glass	∅ 16x60mm
EL65D40IG5	658nm	∅ 7.0 mm	< 24.0mW	< 0.1 mrad	∅ 15mm (@50m)	Optical Glass	∅ 20x70mm
EL65D60IG1	658nm	∅ 4.0 mm	< 30.0mW	< 0.2 mrad	∅ 10 mm (@20m)	Optical Glass	∅ 14x50mm
EL65D60IG2	658nm	∅ 5.0 mm	< 45.0mW	< 0.3 mrad	4x6 mm (@10m)	Optical Glass	∅ 16x60mm
EL65D60IG3	658nm	∅ 6.0 mm	< 40.0mW	< 0.3 mrad	6x10 mm (@20m)	Optical Glass	∅ 20x70mm
EL65D80IG1	658nm	∅ 4.0 mm	< 40.0mW	< 0.2 mrad	∅ 10 mm (@20m)	Optical Glass	∅ 14x50mm
EL65D80IG2	658nm	∅ 5.0 mm	< 60.0mW	< 0.3 mrad	4x6 mm (@10m)	Optical Glass	∅ 16x60mm
EL65D80IG3	658nm	∅ 6.0 mm	< 54.0mW	< 0.3 mrad	6x10 mm (@20m)	Optical Glass	∅ 20x70mm
EL65D100IG1	660nm	∅ 4.0 mm	< 50.0mW	< 0.2 mrad	∅ 10 mm (@20m)	Optical Glass	∅ 16x60mm
EL65D100IG2	660nm	∅ 5.0 mm	< 80.0mW	< 0.3 mrad	4x6 mm (@10m)	Optical Glass	∅ 20x70mm
EL65D100IG3	660nm	∅ 7.0 mm	< 70.0mW	< 0.3 mrad	6x10 mm (@20m)	Optical Glass	∅ 22x70mm
EL65D130IG1	660nm	∅ 4.0 mm	< 65.0mW	< 0.2 mrad	∅ 10 mm (@20m)	Optical Glass	∅ 16x60mm
EL65D130IG2	660nm	∅ 5.0 mm	< 100.0mW	< 0.3 mrad	4x6 mm (@10m)	Optical Glass	∅ 20x70mm
EL65D130IG3	660nm	∅ 6.0 mm	< 90.0mW	< 0.3 mrad	6x10 mm (@20m)	Optical Glass	∅ 22x70mm
EL65D150IG1	660nm	∅ 4.0 mm	<75.0mW	< 0.2 mrad	∅ 10 mm (@20m)	Optical Glass	∅ 16x60mm
EL65D150IG2	660nm	∅ 5.0 mm	< 120.0mW	< 0.3 mrad	4x6 mm (@10m)	Optical Glass	∅ 20x70mm
EL65D150IG3	660nm	∅ 6.0 mm	< 110.0mW	< 0.3 mrad	6x10 mm (@20m)	Optical Glass	∅ 22x70mm

Note:

1. The Dot series laser diode module is customized product with different plastic and glass lens. Thus the laser shape could be an ellipse or circle with various divergence, beam size and aperture. The output power is adjustable according to customers' requirements.
2. Dimensions are customized according to customer's needs except the ones listed.
3. More models could be offered such as EL65D05IGX, EL65D05IG6, EL65D05IG7, EL65D05IG10, EL65D05IG15, etc.

L-Series (Line) Laser Diode Modules

Model	Wavelength	Output Power	Fan Angle	Line Thickness	Lens	Dimensions
EL65L05IP1	650nm	< 3mw	120°	< 1mm(@1m)	Plastic lens	∅ 8x25mm
EL65L05IG2	650nm	< 3mw	5°- 130°	< 2mm(@5m)	Optical Glass	∅ 10x35mm
EL65L05IG3	650nm	< 2.8mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 10x35mm
EL65L05IG9	650nm	< 2.5w	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 8x25mm
EL65L10IP1	650nm	< 6mw	120°	< 1mm(@1m)	Plastic lens	∅ 8x25mm
EL65L10IG2	650nm	< 6mw	5°- 130°	< 2mm(@5m)	Optical Glass	∅ 10x35mm
EL65L10IG3	650nm	< 5mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 10x35mm
EL65L10IG9	650nm	< 6mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 8x25mm
EL65L20IG2	655nm	< 12mw	5°- 130°	< 2mm(@5m)	Optical Glass	∅ 8x25mm
EL65L20IG3	655nm	< 12mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 10x35mm
EL65L20IG9	655nm	< 10mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 12x40mm
EL65L30IG2	655nm	< 18mw	5°- 130°	< 4mm(@10m)	Optical Glass	∅ 12x40mm
EL65L30IG3	655nm	< 16mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 14x50mm
EL65L30IG9	655nm	< 18mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 16x60mm
EL65L40IG2	658nm	< 25mw	5°- 130°	< 4mm(@10m)	Optical Glass	∅ 12x40mm
EL65L40IG3	658nm	< 22mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 14x50mm
EL65L40IG9	658nm	< 25mw	5°- 130°	< 1mm(@10m)	Optical Glass	∅ 16x60mm
EL65L60IG2	658nm	< 35mw	5°- 130°	< 4mm(@10m)	Optical Glass	∅ 14x50mm
EL65L60IG3	658nm	< 32mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 16x60mm
EL65L60IG9	658nm	< 35mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 20x70mm
EL65L80IG2	658nm	< 50mw	5°- 130°	< 4mm(@10m)	Optical Glass	∅ 14x50mm
EL65L80IG3	658nm	< 45mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 16x60mm
EL65L80IG9	658nm	< 50mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 20x70mm
EL65L100IG2	660nm	< 60mw	5°- 130°	< 6mm(@20m)	Optical Glass	∅ 16x60mm
EL65L100IG3	660nm	< 55mw	5°- 130°	< 5mm(@20m)	Optical Glass	∅ 20x70mm
EL65L100IG9	660nm	< 60mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 22x70mm
EL65L130IG2	660nm	< 78mw	5°- 130°	< 8mm(@30m)	Optical Glass	∅ 16x60mm
EL65L130IG3	660nm	< 72mw	5°- 130°	< 6mm(@30m)	Optical Glass	∅ 20x70mm
EL65L130IG9	660nm	< 75mw	5°- 130°	< 1mm(@1m)	Plastic lens	∅ 22x70mm
EL63L05IP1	635nm	< 3.0 mw	120°	< 1mm(@1m)	Plastic lens	∅ 8x25mm
EL63L05IG2	635nm	< 3.0 mw	5°- 130°	< 3mm(@5m)	Optical Glass	∅ 10x35mm
EL63L05IG3	635nm	<2.8 mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 10x35mm
EL63L05IG9	635nm	< 3.0mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 8x25mm
EL63L10IG2	635nm	< 6mw	5°- 130°	< 3mm(@5m)	Optical Glass	∅ 8x25mm
EL63L10IG3	635nm	< 5.6mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 10x35mm
EL63L10IG9	635nm	< 6mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 12x40mm
EL63L20IG2	637nm	< 12mw	5°- 120°	< 3mm(@5m)	Optical Glass	∅ 10x35mm
EL63L20IG3	637nm	< 11mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 12x40mm
EL63L20IG9	637nm	< 12mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 14x50mm
EL63L3IG2	637nm	< 18mw	5°- 120°	< 4mm(@10m)	Optical Glass	∅ 12x40mm
EL63L3IG3	637nm	< 16mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 14x50mm
EL63L3IG9	637nm	< 18mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 16x70mm
EL63L40IG2	640nm	< 24mw	5°- 130°	< 4mm(@10m)	Optical Glass	∅ 12x40mm
EL63L40IG3	640nm	< 22mw	5°- 130°	< 3mm(@10m)	Optical Glass	∅ 14x50mm
EL63L40IG9	640nm	< 24mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 16x70mm
EL63L60IG2	640nm	< 35mw	5°- 130°	< 6mm(@20m)	Optical Glass	∅ 14x50mm
EL63L60IG3	640nm	< 33mw	5°- 130°	< 5mm(@20m)	Optical Glass	∅ 16x60mm
EL63L60IG9	640nm	< 35mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 20x70mm
EL63L90IG2	640nm	< 55mw	5°- 130°	< 8mm(@30m)	Optical Glass	∅ 14x50mm
EL63L90IG3	640nm	< 50mw	5°- 130°	< 6mm(@30m)	Optical Glass	∅ 16x60mm
EL63L90IG9	640nm	< 55mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 20x70mm
EL63L150IG2	640nm	< 90mw	5°- 130°	< 8mm(@30m)	Optical Glass	∅ 16x60mm
EL63L150IG3	640nm	< 85mw	5°- 130°	< 6mm(@30m)	Optical Glass	∅ 20x70mm
EL63L150IG9	640nm	< 90mw	5°- 130°	< 1mm(@1m)	Optical Glass	∅ 22x70mm

Note:

1. Dimension could be customized.
2. Line thickness is adjustable according to applied operating range.
3. Output power is also customized.
4. More line laser module models could be supplied, if you have special requirement, please don't hesitate to contact us, we will provide the solution.

Mini Laser Diode Modules

Model	Wave length	Aperture	Output Power	Divergence	Beam Size	Lens	Dimension
MN650-05FA	650nm	∅ 1.8mm	<3.5mw	0.8mrad	6x12mm(@10m)	Optical Glass	∅ 3.8x8.5mm
MN650-05FB	650nm	∅ 2.4mm	<3.2mw	0.6mrad	5x10mm(@10m)	Optical Glass	∅ 4.0x10mm
MN650-05FC	650nm	∅ 3.0mm	<3.0mw	0.4mrad	4x8mm(@10m)	Optical Glass	∅ 6.0x12mm
MN650-10FA	650nm	∅ 1.8mm	<5.0mw	0.8mrad	6x12mm(@10m)	Optical Glass	∅ 3.8x8.5mm
MN650-10FB	650nm	∅ 2.4mm	<4.5mw	0.6mrad	5x10mm(@10m)	Optical Glass	∅ 4.0x10mm
MN650-10FC	650nm	∅ 3.0mm	<4.2mw	0.4mrad	4x8mm(@10m)	Optical Glass	∅ 6.0x12mm
MN635-05FA	635nm	∅ 1.8mm	<3.5mw	0.8mrad	6x12mm(@10m)	Optical Glass	∅ 3.8x8.5mm
MN635-05FB	635nm	∅ 2.4mm	<3.2mw	0.6mrad	5x10mm(@10m)	Optical Glass	∅ 4.0x10mm
MN635-05FC	635nm	∅ 3.0mm	<3.0mw	0.4mrad	4x8mm(@10m)	Optical Glass	∅ 6.0x12mm
MN635-10FA	635nm	∅ 1.8mm	<5.0mw	0.8mrad	6x12mm(@10m)	Optical Glass	∅ 3.8x8.5mm
MN635-10FB	635nm	∅ 2.4mm	<4.5mw	0.6mrad	5x10mm(@10m)	Optical Glass	∅ 4.0x10mm
MN635-10FC	635nm	∅ 3.0mm	<4.2mw	0.4mrad	4x8mm(@10m)	Optical Glass	∅ 6.0x12mm

Green Laser Diode Modules

Dot – Series

	GLM-001D	GLM-005D	GLM-010D	GLM-020D	GLM-030D
Output power	1mw	5mw	10mw	20mw	30mw
Operating Temp.	-10°C--50°C	0°C--45°C	0°C--45°C	0°C--45°C	0°C--40°C
Power Stability	80%	80%	70%	70%	60%
Operating Current	<130 mw	<160 mw	<250 mw	<350 mw	<450 mw
Operating Voltage	3VDC				
Divergence	1mrad, 0.8mrad, 0.6mrad, 0.4mrad, 0.2mrad				
Warm up Time	Min.<1s, Typ.<2s, Max.<10s				
Bore sight	Min.1mrad, Typ. 3mrad, Max. 6mrad				
Storage Temp.	-30°C-- 70°C				
Life Time	>5000Hrs.				
dimension	∅ 8x28mm, ∅ 10x30mm ∅ 10x34mm, ∅ 12x34mm		∅ 10x30mm ∅ 12x34mm	∅ 12x30mm ∅ 12x34mm	∅ 12x30mm ∅ 12x34mm

405nm , 445nm, 520nm Laser Diode Modules

Model	Wave length	Aperture	Output Power	Divergence	Beam Size	Lens	Dimension
VB405D05VG1	405nm	∅ 4.5mm	<2.5mw	0.1mrad	∅ 5mm(@10m)	Optical Glass	∅ 10x35mm
VB405D05VG2	405nm	∅ 5.0mm	<3.5mw	0.2mrad	4x8mm(@10m)	Optical Glass	∅ 12x40mm
VB405D10VG1	405nm	∅ 4.5mm	<5.0mw	0.1mrad	∅ 5mm(@10m)	Optical Glass	∅ 10x35mm
VB405D10VG2	405nm	∅ 5.0mm	<7.0mw	0.2mrad	4x8mm(@10m)	Optical Glass	∅ 12x40mm
VB405D20VG1	405nm	∅ 4.5mm	<10.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 12x40mm
VB405D20VG2	405nm	∅ 5.0mm	<14.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 12x40mm
VB405D40VG1	405nm	∅ 4.5mm	<20.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 14x50mm
VB405D40VG2	405nm	∅ 5.0mm	<28.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 14x50mm
VB405D60VG1	405nm	∅ 4.5mm	<30.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 14x50mm
VB405D60VG2	405nm	∅ 5.0mm	<40.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 14x50mm
VB405D100VG1	405nm	∅ 4.5mm	<50.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 16x60mm
VB405D100VG2	405nm	∅ 5.0mm	<70.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 16x60mm
VB445D05VG1	445nm	∅ 5.0mm	<40.0mw	0.2mrad	∅ 5mm(@10m)	Optical Glass	∅ 10x35mm
VB405D05VG2	445nm	∅ 5.0mm	<3.5mw	0.2mrad	4x8mm(@10m)	Optical Glass	∅ 12x40mm
VB405D10VG1	445nm	∅ 4.5mm	<5.0mw	0.1mrad	∅ 5mm(@10m)	Optical Glass	∅ 10x35mm
VB405D10VG2	445nm	∅ 5.0mm	<7.0mw	0.2mrad	4x8mm(@10m)	Optical Glass	∅ 12x40mm
VB405D20VG1	445nm	∅ 4.5mm	<10.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 12x40mm
VB405D20VG2	445nm	∅ 5.0mm	<14.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 12x40mm
VB405D40VG1	445nm	∅ 4.5mm	<20.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 14x50mm
VB405D40VG2	445nm	∅ 5.0mm	<28.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 14x50mm
VB405D60VG1	445nm	∅ 4.5mm	<30.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 14x50mm
VB405D60VG2	445nm	∅ 5.0mm	<40.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 14x50mm
VB405D100VG1	445nm	∅ 4.5mm	<50.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 16x60mm
VB405D100VG2	445nm	∅ 5.0mm	<70.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 16x60mm
VB520D05VG1	520nm	∅ 4.5mm	<2.5mw	0.1mrad	∅ 5mm(@10m)	Optical Glass	∅ 10x35mm
VB520D05VG2	520nm	∅ 5.0mm	<3.5mw	0.2mrad	4x8mm(@10m)	Optical Glass	∅ 12x40mm
VB520D10VG1	520nm	∅ 4.5mm	<5.0mw	0.1mrad	∅ 5mm(@10m)	Optical Glass	∅ 10x35mm
VB520D10VG2	520nm	∅ 5.0mm	<7.0mw	0.2mrad	4x8mm(@10m)	Optical Glass	∅ 12x40mm
VB520D20VG1	520nm	∅ 4.5mm	<10.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 12x40mm
VB520D20VG2	520nm	∅ 5.0mm	<14.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 12x40mm
VB520D40VG1	520nm	∅ 4.5mm	<20.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 14x50mm
VB520D40VG2	520nm	∅ 5.0mm	<28.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 14x50mm
VB520D60VG1	520nm	∅ 4.5mm	<30.0mw	0.1mrad	∅ 8mm(@20m)	Optical Glass	∅ 14x50mm
VB520D60VG2	520nm	∅ 5.0mm	<40.0mw	0.2mrad	6x12mm(@20m)	Optical Glass	∅ 14x50mm

Laser Flashlight Laser Beam Expander

Item/Model		LFL-20	LFL-30	LFL-30G	LFL-40
Dimension	Tube Size	∅ 25 / ∅ 36mm	∅ 25 / ∅ 44mm	∅ 36 / ∅ 50mm	∅ 25 / ∅ 52mm
	Length	188mm	216mm	220mm	242mm
Wavelength (color)		532nm (Green)	532nm (Green)	532nm (Green)	532nm (Green)
		635nm (Red)	635nm (Red)	635nm (Red)	635nm (Red)
		850 (Infrared)	850 (Infrared)	850 (Infrared)	850 (Infrared)
Output Power		20mw	30mw	30mw	40mw
Lens Aperture		20mm	30mm	30mm	40mm
Beam Range		Up to 2km	Up to 3km	Up to 3km	Up to 5km
Laser Modes		CW	CW	CW/Pulse	CW
Divergence		Adjustable Focus	Adjustable Focus	Adjustable Focus	Adjustable Focus
FDA Safety Class		Class 2M	Class 2M	Class 2M	Class 2M
Switch		Push Button Pressure Pad	Push Button Pressure Pad	Push Button	Push Button Pressure Pad
Power Supply		One Li CR123A	One Li CR123A	One Li CR123A	One Li CR123A
Mounting System		25.6mm Mount	25.6mm Mount	No	25.6mm Mount

Laser Line Projector (Green,Red)

Model	Wave length	Output Power	Line Thickness	Fan Angle	Operating Voltage	Dimension
ELM53-05A	532nm	3mw	<2.0 mm(@3m)	90°	3VDC	∅ 16x70mm ∅ 26x110mm
ELM53-10A	532nm	7mw	<3.0 mm(@5m)	90°		
ELM53-20A	532nm	14mw	<4.0 mm(@8m)	90°		
ELM63-05A	635nm	3mw	<1.5mm (@3m)	110°	5VDC	
ELM63-10A	635nm	6mw	<2.0 mm(@5m)	110°		
ELM63-20A	635nm	12mw	<3.0 mm(@8m)	110°		
ELM63-30A	635nm	18mw	<4.0 mm(@10m)	110°		
ELM65-60A	660nm	20mw	<1.5mm (@3m)	110°		
ELM65-80A	660nm	35mw	<2.0 mm(@5m)	110°		
ELM65-100A	660nm	50mw	<3.0 mm(@8m)	110°		
ELM65-130A	660nm	70mw	<4.0 mm(@10m)	110°		
ELM53-05B	532nm	3mw	<2.0 mm(@3m)	90°	90-250VAC	∅ 40X180mm ∅ 50x210mm
ELM53-10B	532nm	7mw	<3.0 mm(@5m)	90°		
ELM53-20B	532nm	14mw	<4.0 mm(@8m)	90°		
ELM63-05B	635nm	3mw	<1.5mm (@3m)	110°		
ELM63-10B	635nm	6mw	<2.0 mm(@5m)	110°		
ELM63-20B	635nm	12mw	<3.0 mm(@8m)	110°		
ELM63-30B	635nm	18mw	<4.0 mm(@10m)	110°		
ELM65-60B	660nm	20mw	<1.5mm (@3m)	110°		
ELM65-80B	660nm	35mw	<2.0 mm(@5m)	110°		
ELM65-100B	660nm	50mw	<3.0 mm(@8m)	110°		
ELM65-130B	660nm	70mw	<3.0 mm(@8m)	110°		