

Industrial Laser Modules

From DLC, the reliability leader of diode laser module manufacturers



DLC's focus on customer satisfaction is equally unmatched. We meet or exceed our quoted lead times over 97% of the time.

DLC is the answer for the customer who has been searching for quality, reliability, and excellent customer service. Our vision to produce the most reliable and competitively priced modules began with the company's inception in 1991, and has established DLC as a leader in the industry.

DLC is the future of the Diode Laser Module market. Call us today to discuss your application!

Innovative Technical Solutions

- Surge, Static, and Reverse Polarity Protection
- Variety of: Wavelengths
Beam Configurations
Fan Angles for Line Generation
- Hard Coat Anodization Keeping the Case at Neutral Potential
- Scratch Resistant Sapphire Window
- Industrial Connectors
- All Units Aimed to Within a 1/4 Degree of the Mechanical Axis.

Unmatched Product Reliability

Unsurpassed Customer Service

ISO 9001 Registered

Competitive Pricing

Two Year Warranty

Diode Laser Concepts, Inc. offers the most rugged Industrial Laser Module on the market today. Our unique packaging of the Industrial Module, with industry standard electrical connectors fabricated into the module body, greatly simplifies fixture modifications, moving of modules, and module upgrades or replacements. Instead of a lengthy mechanical/electrical procedure followed by an optical realignment, DLC's modules can be changed in less than a minute, eliminating costly machinery down time. Our internal driver circuitry utilizes automotive electronics to provide maximum surge and static protection to the laser diode.

DLC has made a commitment to producing the world's most reliable Diode Laser Module. Our modules are found in the tire, medical, wood products and textile industries, and we maintain a field failure rate of less than 0.5%. The industry's lowest!



DIODE LASER CONCEPTS, INC

4731 Industry Drive - Central Point, OR 97502

Tel: 541-773-5321 - Fax: 541-773-1705 - Web: <http://www.diodelaserconcepts.com>

INDUSTRIAL DIODE LASER MODULES

ELLIPTICAL BEAMS

Beam Size @ Aperture	Wavelength	1/2 Angle Beam Divergence (mrad)	Operating Current Typical/Maximum (mA)	Output Power (mW)	CDRH Class	Module Length (in/mm)	DLC Part Number
5.0mm x 1.2mm	635nm	.67 x .17	55/85	0.97	II	2.10/53.34	FAY-IS3-10
	635nm		60/90	4.2	IIIa		FAY-IS3-50
	635nm		70/100	8.2	IIIb		FAY-IS3-80
	635nm		80/110	12.4	IIIb		FAY-IS3-H0
	635nm		100/150	27.5	IIIb		FAY-IS3-30
	650nm		35/65	0.97	II		FAY-IS5-10
	650nm		40/70	4.2	IIIa		FAY-IS5-50
	650nm		80/130	27.5	IIIb		FAY-IS5-30
	650nm		40/70	4.2	IIIa		FAY-IS5-50
	670nm		35/70	0.97	II		FAY-IS7-10
	670nm		40/70	4.2	IIIa		FAY-IS7-50
	780nm		35/60	0.97	IIIb		FIY-IS8-10
	780nm		35/60	4.2	IIIb		FIY-IS8-50
	830nm		60/110	27.5	IIIb		FIY-IS3-30

Beam Size @ Aperture	Wavelength	1/2 Angle Beam Divergence (mrad)	Operating Current Typical/Maximum (mA)	Output Power (mW)	CDRH Class	Module Length (in/mm)	DLC Part Number
6.1mm x 1.2mm	635nm	.47 x .12	60/90	4.2	IIIa	2.20/55.88	FAY-IS3-5G
	635nm		55/85	0.97	II		FAY-IS3-1G
	635nm		70/100	8.2	IIIb		FAY-IS3-8G
	635nm		80/110	12.2	IIIb		FAY-IS3-HG
	635nm		100/150	27.5	IIIb		FAY-IS3-3G
	650nm		35/70	0.97	II		FAY-IS5-1G
	650nm		40/70	4.2	IIIa		FAY-IS5-5G
	650nm		80/130	27.5	IIIb		FAY-IS5-3G
	670nm		35/70	0.97	II		FAY-IS7-1G
	670nm		40/70	4.2	IIIa		FAY-IS7-5G
	780nm		35/60	0.97	IIIb		FIY-IS8-1G
	780nm		35/60	4.2	IIIb		FIY-IS8-5G
	830nm		60/110	27.5	IIIb		FIY-IS3-3G

ROUND BEAMS

Beam Size @ Aperture	Wavelength	1/2 Angle Beam Divergence (mrad)	Operating Current Typical/Maximum (mA)	Output Power (mW)	CDRH Class	Module Length (in/mm)	DLC Part Number
3.0mm	635nm	.25	60/90	0.97	II	2.70/68.58	FAY-IS3-1R
	635nm		70/100	2.1	IIIa		FAY-IS3-8R
	635nm		80/110	3.1	IIIa		FAY-IS3-HR
	635nm		100/150	6.1	IIIb		FAY-IS3-3R
	650nm		40/70	0.97	II		FAY-IS5-1R
	650nm		80/130	9.3	IIIb		FAY-IS5-3R
	670nm		40/70	0.97	II		FAY-IS7-1R
	780nm		35/60	0.97	IIIb		FIY-IS8-1R
	830nm		60/110	10	IIIb		FIY-IS3-3R

* NOTE: Add "D" to the end of above part numbers for DC Connector. Please consult factory representative.

INDUSTRIAL DIODE LASER MODULES

LINE GENERATORS

Line Length with Full Fan Angle of:	Wavelength	(Line Thickness) 1/2 Angle Beam Divergence (mrad)	Operating Current Typical/Maximum (mA)	Power Rating (mW)	CDRH Class	Module Length (in/mm)	DLC Part Number
90 Degrees	635nm	.39	60/90	5	II	2.50/63.50	FAY-IL3-19
	635nm		70/100	10	II		FAY-IL3-89
	635nm		80/110	15	II		FAY-IL3-H9
	635nm		100/150	30	IIIa		FAY-IL3-39
	650nm		40/70	5	II		FAY-IL5-19
	650nm		80/130	30	IIIa		FAY-IL5-39
	670nm		40/70	5	II		FAY-IL7-19
	780nm		35/60	5	IIIb		FIY-IL8-19
	830nm		60/110	30	IIIb		FIY-IL3-39
60 Degrees	635nm	.39	60/90	5	II	2.50/63.50	FAY-IL3-16
	635nm		70/100	10	II		FAY-IL3-86
	635nm		80/110	15	II		FAY-IL3-H6
	635nm		100/150	30	IIIa		FAY-IL3-36
	650nm		40/70	5	II		FAY-IL5-16
	650nm		80/130	30	IIIa		FAY-IL5-36
	670nm		40/70	5	II		FAY-IL7-16
	780nm		35/60	5	IIIb		FIY-IL8-36
	830nm		60/110	30	IIIb		FIY-IL3-36

LINE GENERATORS

Line Length with Full Fan Angle of:	Wavelength	(Line Thickness) 1/2 Angle Beam Divergence (mrad)	Operating Current Typical/Maximum (mA)	Power Rating (mW)	CDRH Class	Module Length (in/mm)	DLC Part Number
45 Degrees	635nm	.39	60/90	5	II	2.50/63.50	FAY-IL3-14
	635nm		70/100	10	II		FAY-IL3-84
	635nm		80/110	15	II		FAY-IL3-H4
	635nm		100/150	30	IIIa		FAY-IL3-34
	650nm		40/70	5	II		FAY-IL5-14
	650nm		80/130	30	IIIa		FAY-IL5-34
	670nm		40/70	5	II		FAY-IL7-14
	780nm		35/60	5	IIIb		FIY-IL8-14
	830nm		60/110	30	IIIb		FIY-IL3-34
10 Degrees	635nm	.39	60/90	5	II	2.50/63.50	FAY-IL3-11
	635nm		70/100	10	II		FAY-IL3-81
	635nm		80/110	15	II		FAY-IL3-H1
	635nm		100/150	30	IIIa		FAY-IL3-31
	650nm		40/70	5	II		FAY-IL5-11
	650nm		80/130	30	IIIa		FAY-IL5-31
	670nm		40/70	5	II		FAY-IL7-11
	780nm		35/60	5	IIIb		FAY-IL8-11
	830nm		60/110	30	IIIb		FIY-IL3-31

*** NOTE: Add "D" to the end of above part numbers for DC Connector. Please consult factory representative.**

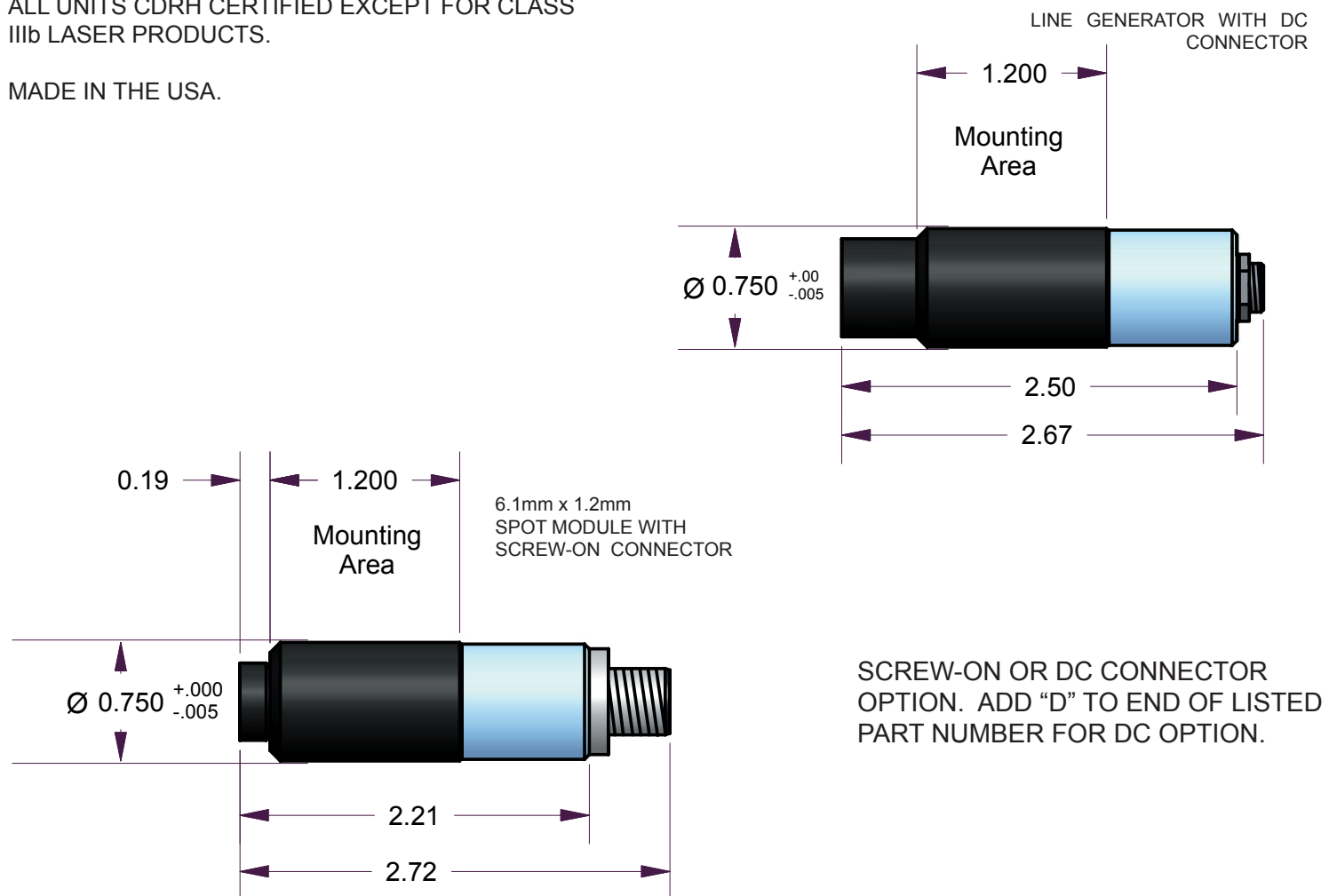
INDUSTRIAL DIODE LASER MODULES

INDUSTRIAL LASER MODULES General Specifications:	
Voltage Required:	5.0VDC (regulated)
Aiming:	1/4 degree (1/2 angle)
Line Width: (Line Generators)	1mm (nominal)
Emissions Indicator:	Red LED
Case:	@ Neutral Potential
Internal Electronics:	Static, Surge and Reverse Polarity Protected
Operating Temperature:	-10 deg. C to +50 deg. C
Storage Temperature:	-40 deg. C to +80 deg. C
Warranty:	Limited 2 Year



ALL UNITS CDRH CERTIFIED EXCEPT FOR CLASS IIIb LASER PRODUCTS.

MADE IN THE USA.



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