

Fiber-Coupled Diode Laser Module

878.6 nm, 65 W, VBG,
Conduction-Cooled, Single Emitter-Based



OPTICAL PARAMETERS ¹	I5F-HS16.2
Center Wavelength Range ³ (nm)	878.6
Center Wavelength Tolerance ³ (nm)	±0.6
Output Power ² (W)	65
Spectral Width (90% power content) (nm)	<1
Wavelength Temp. Coefficient (nm/°C)	0.01
Slope Efficiency (W/A)	>9
Numerical Aperture (NA)	>90% (typ. 95%) in 0.15
FIBER PARAMETERS ⁵	
Fiber Core Diameter (µm)	200 ±5
Fiber Clad Diameter (µm)	280 ±6
Fiber Coating Diameter (µm)	450 ±30
Fiber Loose Tubing Diameter (mm)	2.2
Numerical Aperture ³ (NA)	0.22 ±0.02
Fiber Length (m)	1.5
Fiber Termination	SMA905
ELECTRICAL PARAMETERS ¹	
Power Conversion Efficiency (%)	>45% (typ. 50%)
Threshold Current (I _{TH}) (A)	<2
Operating Current (I _{OP}) (A)	<11 (typ. 9)
Operating Voltage (V _{OP}) (V) max.	19
THERMAL PARAMETERS	
Operating Temperature Range ^{3,4} (°C)	+20 to +30
Storage Temperature Range ⁴ (°C)	0 to +55
Recommended Heatsink Capacity (W)	85
Maximum Soldering Temperature for Electrical Leads (°C)	320
Maximum Soldering Time per Lead (s)	10

¹ Data at 25°C base plate temperature.

² Reduced lifetime if used above nominal operating conditions.

³ Others available upon request.

⁴ A non-condensing environment is required for storage and operation below the ambient dew point.

⁵ Non-detachable fiber.

Fiber-Coupled Diode Laser Module

885 nm, 65 W, VBG,
Conduction-Cooled, Single Emitter-Based



OPTICAL PARAMETERS ¹	I5F-HS16.2
Center Wavelength Range ³ (nm)	885
Center Wavelength Tolerance ³ (nm)	±0.6
Output Power ² (W)	65
Spectral Width (90% power content) (nm)	<1
Wavelength Temp. Coefficient (nm/°C)	0.01
Slope Efficiency (W/A)	>9
Numerical Aperture (NA)	>90% (typ. 95%) in 0.15
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Fiber-Coupled Diode Laser Module

888 nm, 65 W, VBG,
Conduction-Cooled, Single Emitter-Based



OPTICAL PARAMETERS ¹	I5F-HS16.2
Center Wavelength Range ³ (nm)	888
Center Wavelength Tolerance ³ (nm)	±0.6
Output Power ² (W)	65
Spectral Width (90% power content) (nm)	<1
Wavelength Temp. Coefficient (nm/°C)	0.01
Slope Efficiency (W/A)	>9
Numerical Aperture (NA)	>90% (typ. 95%) in 0.15
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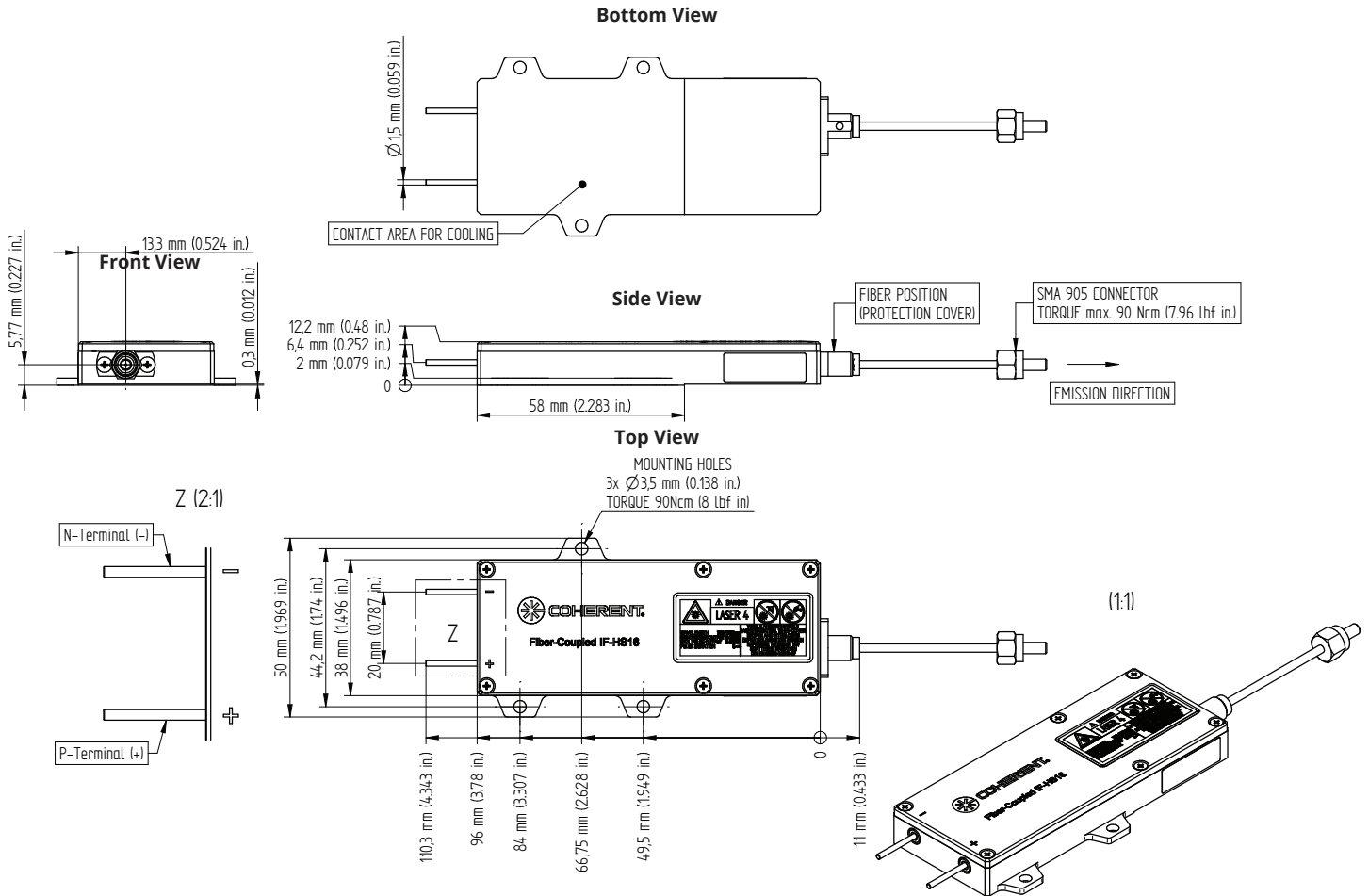
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⁵ Non-detachable fiber.

MECHANICAL SPECIFICATIONS

VBG, Conduction-Cooled, Single Emitter-Based Fiber-Coupled Diode Laser Module

15F-HS16



株式会社ルクスレイ URL: <http://www.LxRay.jp> E-mail: info@LxRay.jp
 関西本社 〒663-8113 兵庫県西宮市甲子園口3-28-22 TEL: 0798-31-0500, FAX: 0798-31-0505
 東京事務所 〒113-0033 東京都文京区本郷2-11-6 第1谷ロビル1F TEL: 03-3868-0200, FAX: 03-6912-6394

Coherent, Inc.,
 5100 Patrick Henry Drive Santa Clara, CA 95054
 p. (800) 527-3786 | (408) 764-4983
 f. (408) 764-4646

tech.sales@Coherent.com www.Coherent.com

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