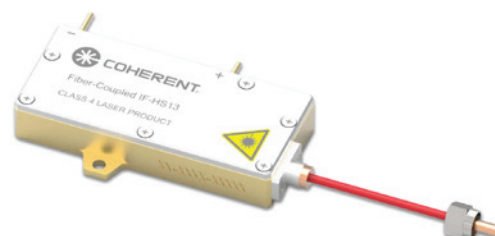


Fiber-Coupled Diode Laser Module

878.6 nm, 120 W, VBG,
Conduction-Cooled, Single Emitter-Based



OPTICAL PARAMETERS ¹	I5F-HS13.1
Center Wavelength Range ³ (nm)	878.6
Center Wavelength Tolerance ³ (nm)	±0.6
Output Power ² (W)	120
Spectral Width (90% power content) (nm)	<1
Wavelength Temp. Coefficient (nm/°C)	0.01
Slope Efficiency (W/A)	>7
Numerical Aperture (NA)	>90% (typ. 95%) in 0.15
FIBER PARAMETERS ⁵	
Fiber Core Diameter (μm)	400 ±10
Fiber Clad Diameter (μm)	480 ±10
Fiber Coating Diameter (μm)	830 ± 50
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)	<4
Operating Current (I _{OP}) (A)	<20 (typ. 18)
Operating Voltage (V _{OP}) (V) max.	15
THERMAL PARAMETERS	
Operating Temperature Range ^{3,4} (°C)	+20 to +30
Storage Temperature Range ⁴ (°C)	0 to +55
Recommended Heatsink Capacity (W)	155
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.

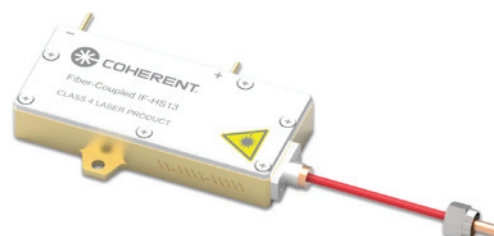
³ Others available upon request.

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, 120 W, VBG,
Conduction-Cooled, Single Emitter-Based



OPTICAL PARAMETERS ¹	I5F-HS13.1
Center Wavelength Range ³ (nm)	885
Center Wavelength Tolerance ³ (nm)	±0.6
Output Power ² (W)	120
Spectral Width (90% power content) (nm)	<1
Wavelength Temp. Coefficient (nm/°C)	0.01
Slope Efficiency (W/A)	>7
Numerical Aperture (NA)	>90% (typ. 95%) in 0.15
FIBER PARAMETERS ⁵	
Fiber Core Diameter (μm)	400 ±10
Fiber Clad Diameter (μm)	480 ±10
Fiber Coating Diameter (μm)	830 ± 50
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)	<4
Operating Current (I _{OP}) (A)	<20 (typ. 18)
Operating Voltage (V _{OP}) (V) max.	15
THERMAL PARAMETERS	
Operating Temperature Range ^{3,4} (°C)	+20 to +30
Storage Temperature Range ⁴ (°C)	0 to +55
Recommended Heatsink Capacity (W)	155
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.

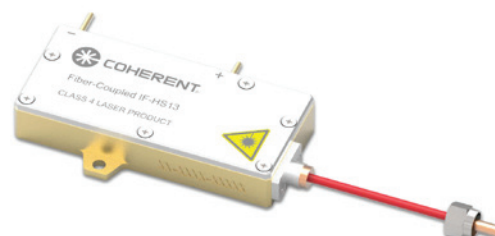
³ Others available upon request.

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

888 nm, 120 W, VBG,
Conduction-Cooled, Single Emitter-Based



OPTICAL PARAMETERS ¹	I5F-HS13.1
Center Wavelength Range ³ (nm)	888
Center Wavelength Tolerance ³ (nm)	±0.6
Output Power ² (W)	120
Spectral Width (90% power content) (nm)	<1
Wavelength Temp. Coefficient (nm/°C)	0.01
Slope Efficiency (W/A)	>7
Numerical Aperture (NA)	>90% (typ. 95%) in 0.15
FIBER PARAMETERS ⁵	
Fiber Core Diameter (μm)	400 ±10
Fiber Clad Diameter (μm)	480 ±10
Fiber Coating Diameter (μm)	830 ± 50
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)	<4
Operating Current (I _{OP}) (A)	<20 (typ. 18)
Operating Voltage (V _{OP}) (V) max.	15
THERMAL PARAMETERS	
Operating Temperature Range ^{3,4} (°C)	+20 to +30
Storage Temperature Range ⁴ (°C)	0 to +55
Recommended Heatsink Capacity (W)	155
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.

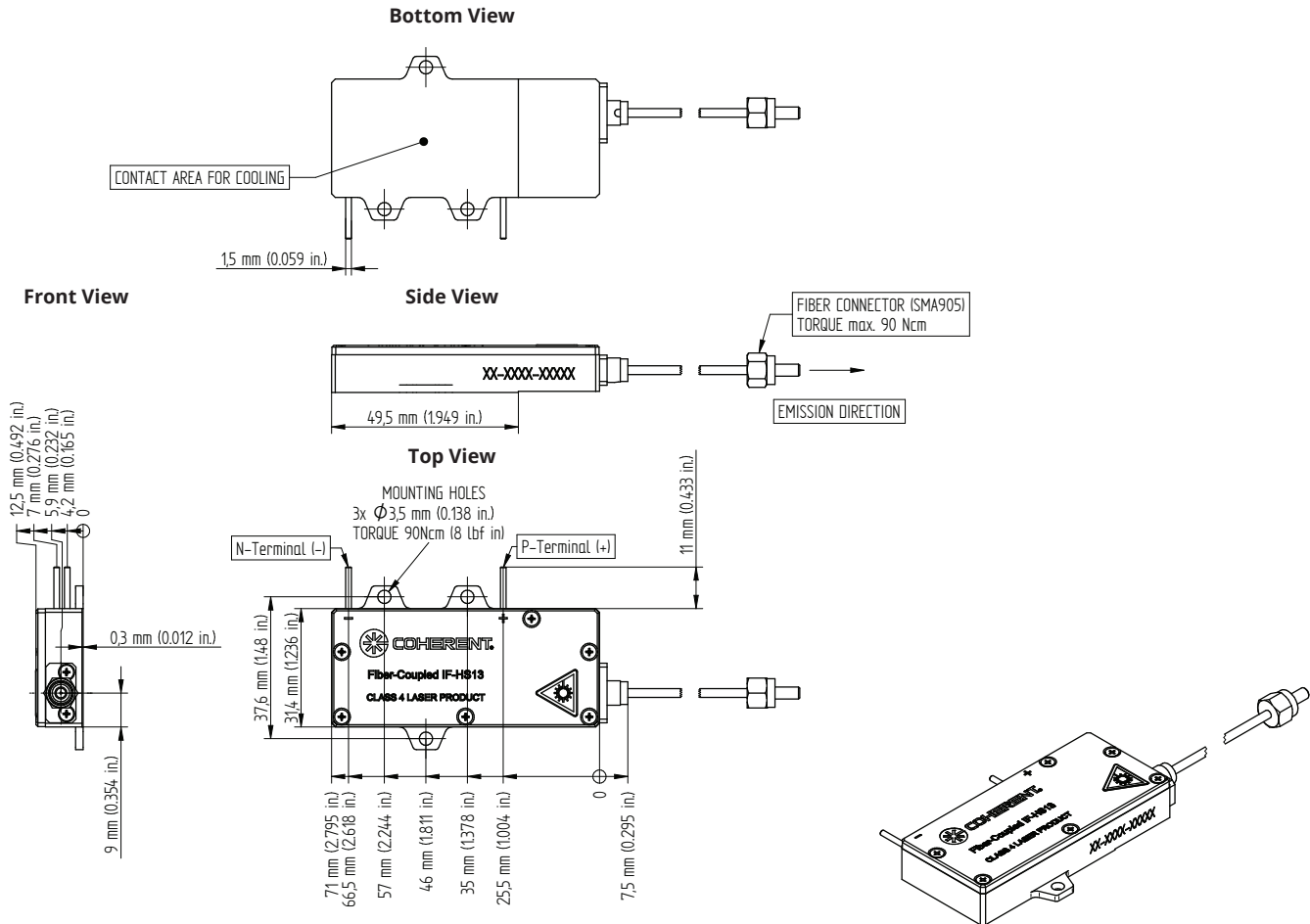
⁴ A non-condensing environment is required for storage and operation below the ambient dew point.

⁵ Non-detachable fiber.

MECHANICAL SPECIFICATIONS

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

I5F-HS13



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