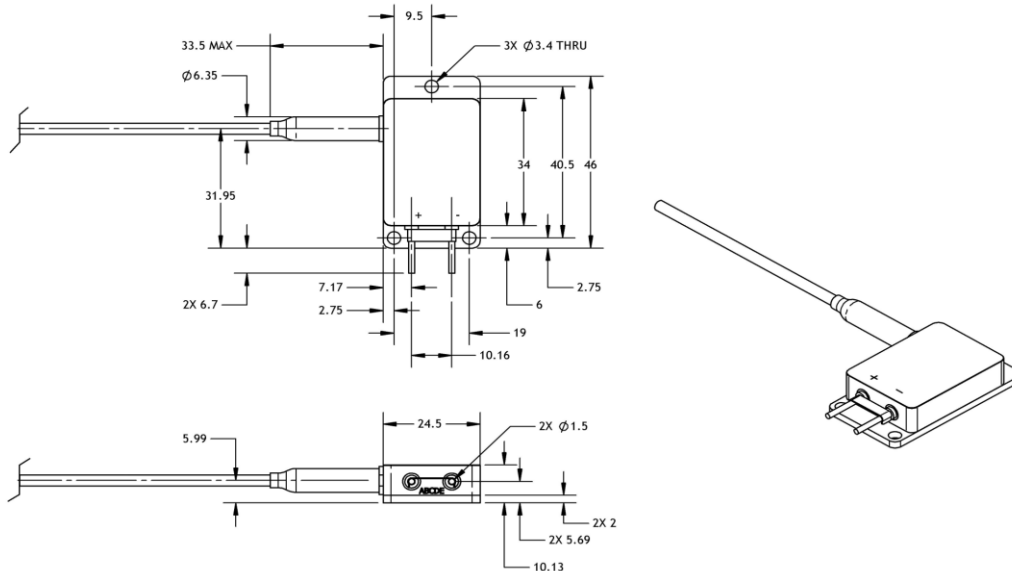


Item Number **1040677**
 Item Description **e03-03-030-0915-5-105-0.22-SI-FPT-1.5-HT**
 Model **e03.0300915105**

Pilot ⁴
 EAR99 ⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power ⁶	W		30	
Centroid Wavelength	nm	910	915	920
Spectral Width (FWHM)	nm		4.5	7.0
Slope Efficiency	W / A		2.8	
Power within 0.14 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		47	
Threshold Current	A		0.4	
Operating Current	A			12.0
Operating Voltage	V		5.3	
Mechanical				
Mass	g		60	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	35		
Fiber Jacketing	-		900 µm Hytrel Loose Tube Buffer	
Fiber Termination	-		None	
Thermal				
Thermal Resistance	°C / W		1.2	
Waste Heat	W		34	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.32	
Wavelength Current Coefficient	nm / A		0.9	

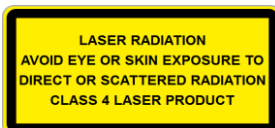
Outline Drawing (Package Dimension 46 x 24.5 x 10.1 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (lop) is 120% beginning of life lop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
 This laser does NOT comply with IEC 60825-1 or 21 CFR 1040 for complete laser products and is solely intended to be integrated in a certified laser product.



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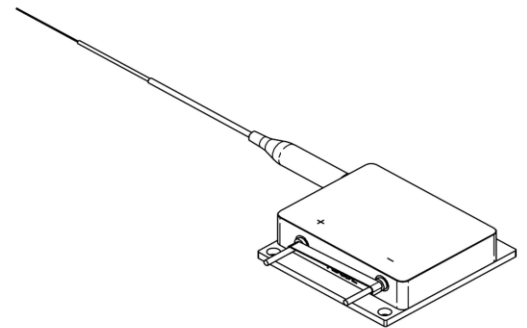
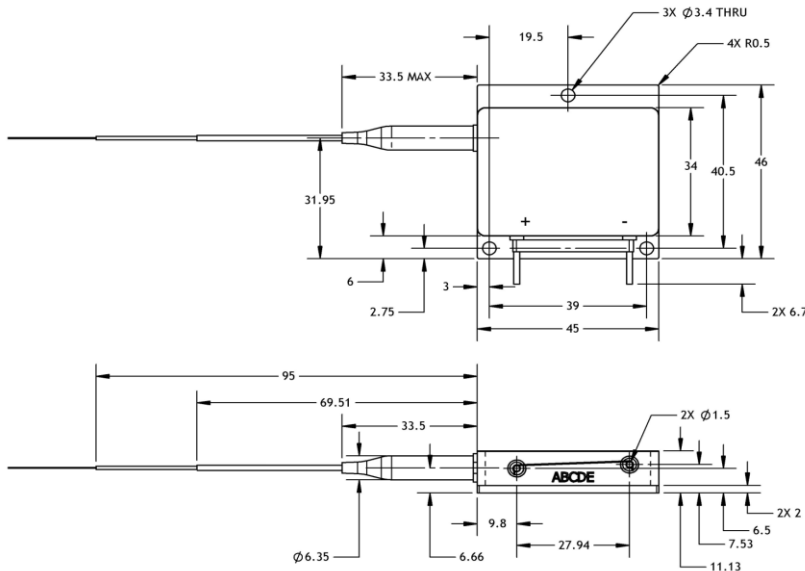


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Item Number 1038929
 Item Description e06-06-055-0976-3-105-0.22-SI-FPT-1.5-HT
 Model e06.0550976105

Pilot⁴
 EAR99⁵

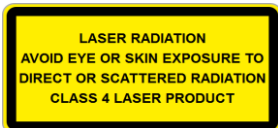
	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power ⁶	W		56	
Centroid Wavelength	nm	973	976	979
Spectral Width (FWHM)	nm		5.0	7.0
Slope Efficiency	W / A		5.3	
Power within 0.14 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%	42	46	
Threshold Current	A		0.4	
Operating Current	A			12.0
Operating Voltage	V		10.2	10.6
Mechanical				
Mass	g		85	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	35		
Fiber Jacketing	-		900 µm Hytrel Loose Tube Buffer	
Fiber Termination	-		None	
Thermal				
Thermal Resistance	°C / W		0.6	
Waste Heat	W		66	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.36	
Wavelength Current Coefficient	nm / A		1.2	
Outline Drawing (Package Dimension 46 x 45 x 11.1 mm)				



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (lop) is 120% beginning of life lop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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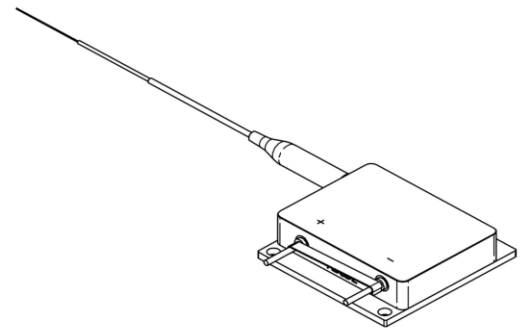
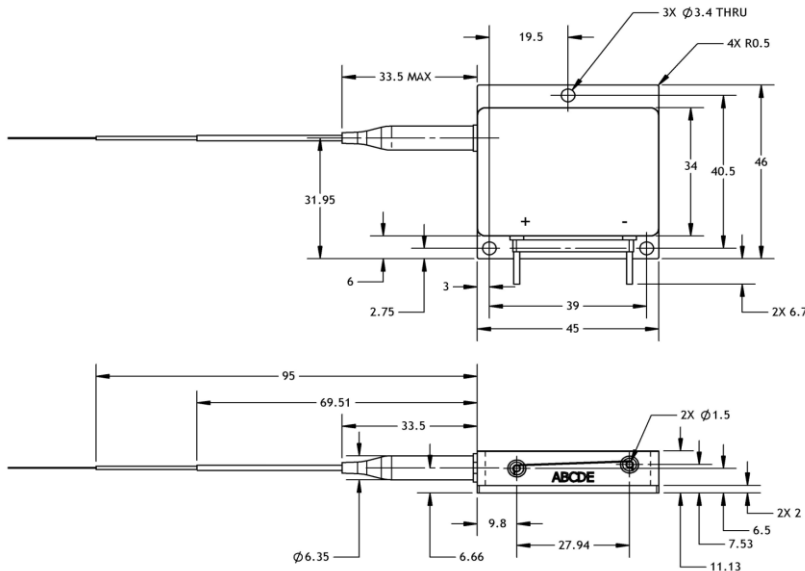
nLIGHT

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Item Number 1038928
 Item Description e06-06-058-0915-5-105-0.22-SI-FPT-1.5-HT
 Model e06.0580915105

Pilot⁴
 EAR99⁵

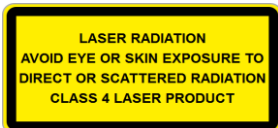
	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power ⁶	W		60	
Centroid Wavelength	nm	910	915	920
Spectral Width (FWHM)	nm		4.5	7.0
Slope Efficiency	W / A		5.6	
Power within 0.14 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%	43	47	
Threshold Current	A		0.4	
Operating Current	A			12.0
Operating Voltage	V		10.6	11.0
Mechanical				
Mass	g		85	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	35		
Fiber Jacketing	-		900 µm Hytrel Loose Tube Buffer	
Fiber Termination	-		None	
Thermal				
Thermal Resistance	°C / W		0.6	
Waste Heat	W		67	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.32	
Wavelength Current Coefficient	nm / A		1.1	
Outline Drawing (Package Dimension 46 x 45 x 11.1 mm)				



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (lop) is 120% beginning of life lop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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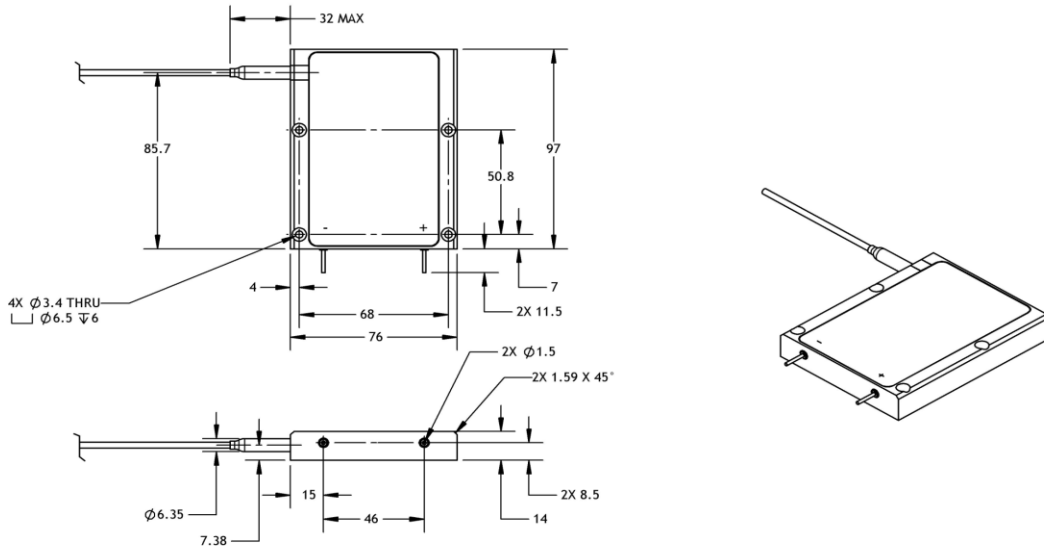
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 web: www.nlight.net

Item Number 1044012
 Item Description e18-18-210-0915-5-200-0.22-SI-FPT-2.0-HT
 Model e18.2100915200

6A005.d.1.b.1⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	200		
CW Output Power (without fresnel loss)	W	207		
Centroid Wavelength	nm	910.0	915.0	920.0
Spectral Width (FWHM)	nm		4.9	7.0
Power within 0.18 NA	%	90		
Fiber Core / Clad Diameter	µm		200 / 220	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		46	
Threshold Current	A		0.7	
Operating Current	A		16.0	18.0
Operating Voltage	V		32.2	
Mechanical				
Mass	g		450	
Fiber Length	m	1.5	2	
Active Fiber Bend Radius	mm	35		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		0.2	
Waste Heat	W		305	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.32	
Wavelength Current Coefficient	nm / A		1.1	

Outline Drawing (Package Dimension 97 x 76 x 14 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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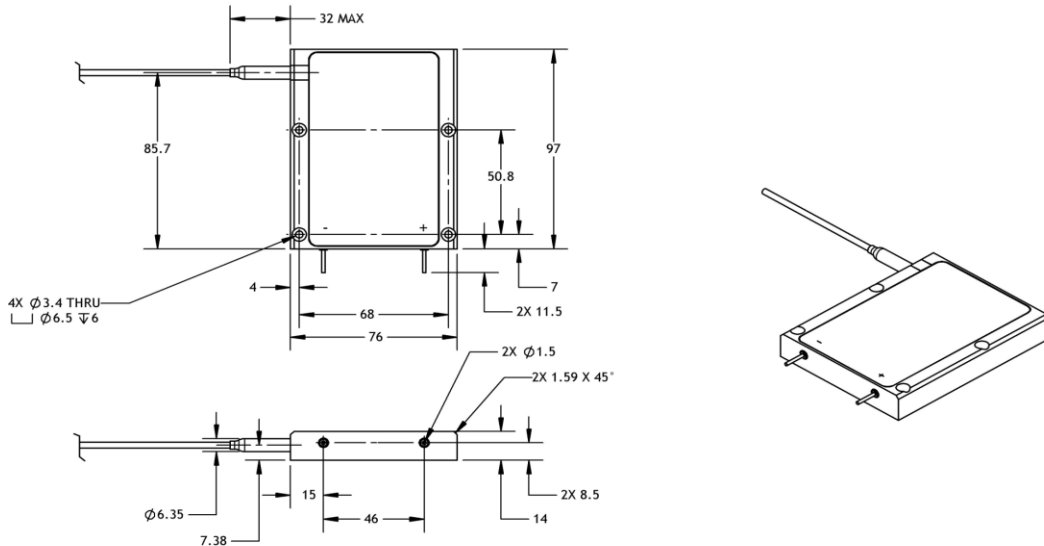
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Item Number 1039269
 Item Description e18-18-210-0976-3-200-0.22-SI-FPT-1.5-HT
 Model e18.2100976200

Design Validation (Beta)⁴
 6A005.d.1.b.1⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	200		
CW Output Power (without fresnel loss)	W	207		
Centroid Wavelength	nm	973.0	976.0	979.0
Spectral Width (FWHM)	nm		4.5	7.0
Power within 0.18 NA	%	90		
Fiber Core / Clad Diameter	μm		200 / 220	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		46	
Threshold Current	A		0.7	
Operating Current	A		16.0	18.0
Operating Voltage	V		31.3	
Mechanical				
Mass	g		450	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	35		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		0.2	
Waste Heat	W		270	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.35	
Wavelength Current Coefficient	nm / A		1.1	

Outline Drawing (Package Dimension 97 x 76 x 14 mm)



Notes

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- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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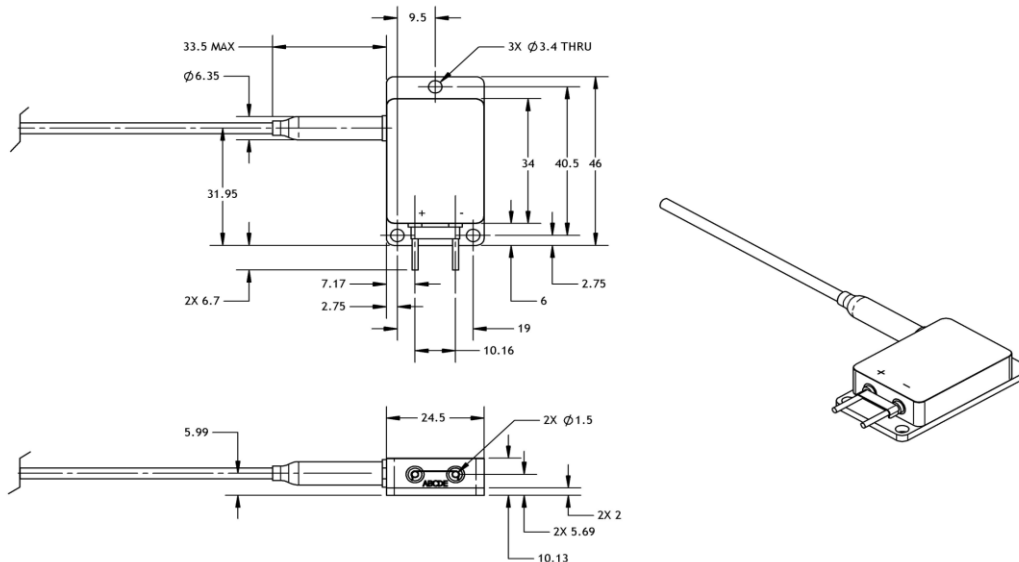
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Item Number 1051885
 Item Description e03-03-037-0976-3-105-0.22-SI-FPT-1.5-HT
 Model e03.0370976105

Design Validation (Beta)⁴
 EAR99⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	34	37	
CW Output Power (without fresnel loss)	W	35	38	
Centroid Wavelength	nm	973.0	976.0	979.0
Spectral Width (FWHM)	nm			7.0
Power within 0.18 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		50	
Threshold Current	A		0.7	
Operating Current	A		15.0	
Operating Voltage	V		5.4	
Mechanical				
Mass	g		60	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	25		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		1.0	
Waste Heat	W		44	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.35	
Wavelength Current Coefficient	nm / A		0.85	

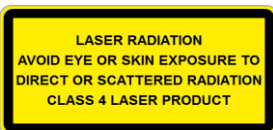
Outline Drawing (Package Dimension 46 x 24.5 x 10.1 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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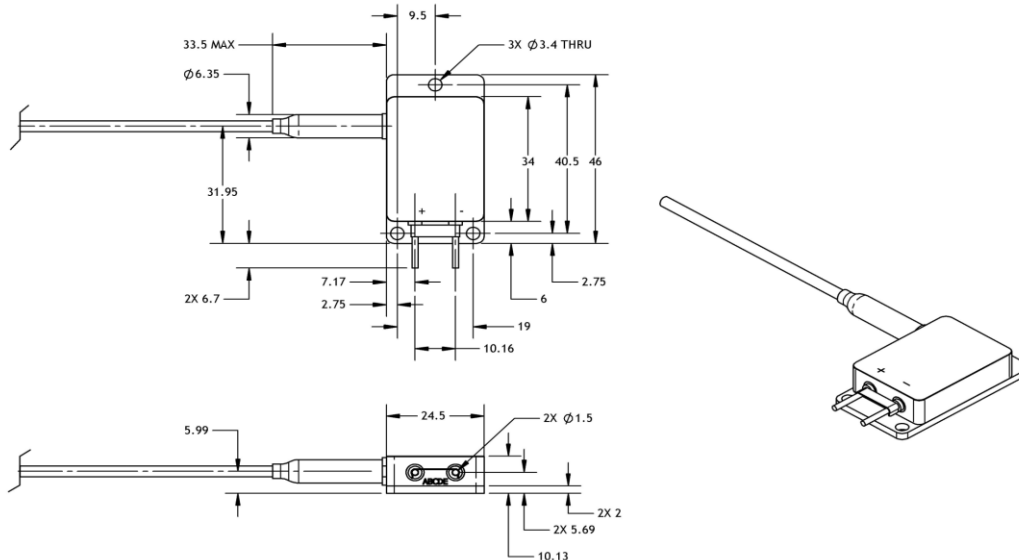
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Item Number **1047046**
 Item Description **e03-03-040-0915-5-105-0.22-SI-FPT-1.5-HT**
 Model **e03.0400915105**

EAR99⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	37	40	
CW Output Power (without fresnel loss)	W	38	41	
Centroid Wavelength	nm	910.0	915.0	920.0
Spectral Width (FWHM)	nm			7.0
Power withing 0.18 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		50	
Threshold Current	A		0.7	
Operating Current	A		15.0	
Operating Voltage	V		5.4	
Mechanical				
Mass	g		60	
Fiber Length	m	1.0	1.5	
Active Fiber Bend Radius	mm	25		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		1.0	
Waste Heat	W		41	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.32	
Wavelength Current Coefficient	nm / A		0.85	

Outline Drawing (Package Dimension 46 x 24.5 x 10.1 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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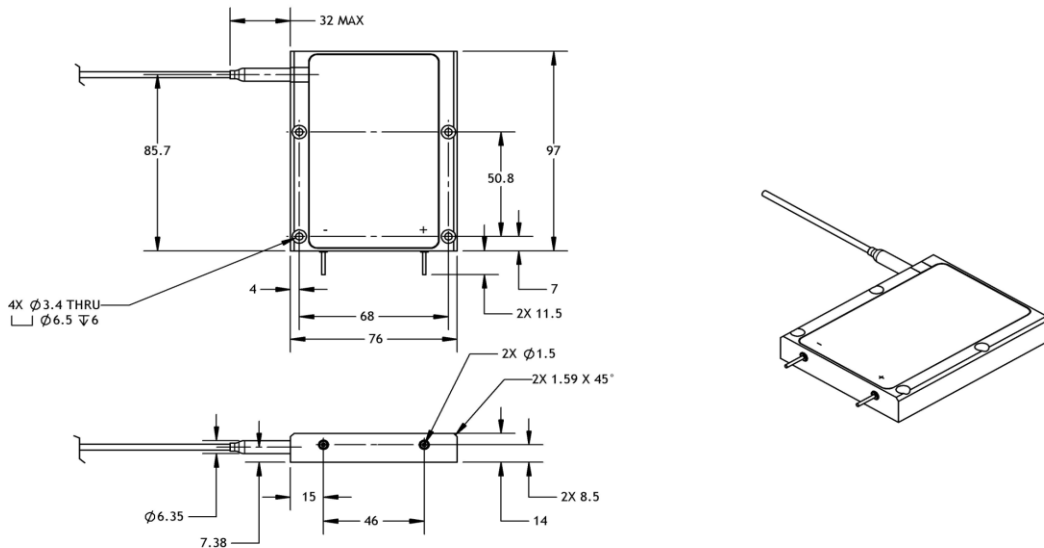
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Item Number 1039990
 Item Description e18-12-105-0976-3-105-0.22-SI-FPT-2.0-HT
 Model e18.1050976105

Design Validation (Beta)⁴
 EAR99⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	95	105	
CW Output Power (without fresnel loss)	W		109	
Centroid Wavelength	nm	973.0	976.0	979.0
Spectral Width (FWHM)	nm		4.7	7.0
Power within 0.14 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		43	
Threshold Current	A		0.4	
Operating Current	A		12.0	
Operating Voltage	V		20.4	
Mechanical				
Mass	g		450	
Fiber Length	m	1.5	2	
Active Fiber Bend Radius	mm	25		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		0.3	
Waste Heat	W		140	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.35	
Wavelength Current Coefficient	nm / A		1.2	

Outline Drawing (Package Dimension 97 x 76 x 14 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
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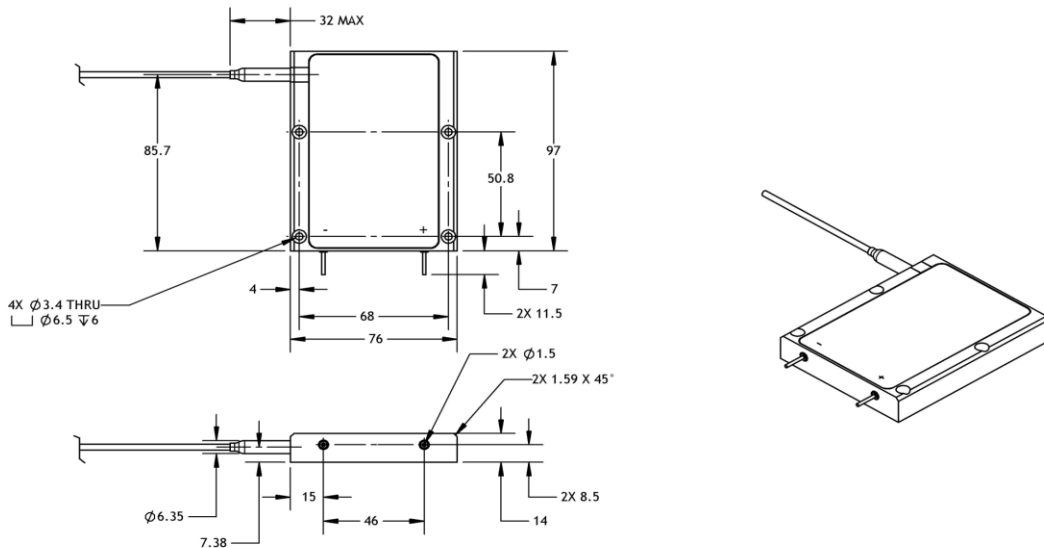
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Item Number 1044161
Item Description e18-12-110-0915-5-105-0.22-SI-FPT-2.0-HT
Model e18.1100915105

Design Validation (Beta)⁴
EAR99⁵

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (with fresnel loss) ⁶	W	100	112	
CW Output Power (without fresnel loss)	W		114	
Centroid Wavelength	nm	910.0	915.0	920.0
Spectral Width (FWHM)	nm		3.9	7.0
Power within 0.14 NA	%	90		
Fiber Core / Clad Diameter	µm		105 / 125	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Electrical				
Electrical-to-Optical Efficiency	%		42	
Threshold Current	A		0.4	
Operating Current	A		12.0	
Operating Voltage	V		22.2	
Mechanical				
Mass	g		450	
Fiber Length	m	1.5	2	
Active Fiber Bend Radius	mm	25		
Fiber Jacketing	-		900 um Hytrel Loose Tube Buffer	
Fiber Termination	-		FPT	
Thermal				
Thermal Resistance	°C / W		0.3	
Waste Heat	W		154	
Operating (Housing) Temperature ^{2,3}	°C	+20	+25	+35
Wavelength Temperature Coefficient	nm / °C		0.32	
Wavelength Current Coefficient	nm / A		1.1	

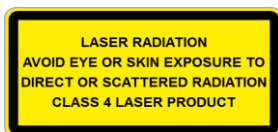
Outline Drawing (Package Dimension 97 x 76 x 14 mm)



Notes

- ¹ Production specification shown are for beginning of life performance, end of life operating current (Iop) is 120% beginning of life Iop
- ² A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %
- ³ Operating temperature defined by the package housing
- ⁴ Current phase within the nLIGHT's NPI (New Production Introduction) Process
- ⁵ Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ⁶ Reported power is with an uncoated distal fiber end, therefore will be ~ 3.5 % higher if spliced

IEC Regulation
 This laser does NOT comply with IEC 60825-1 or 21 CFR 1040 for complete laser products and is solely intended to be integrated in a certified laser product.



Notice
 nLIGHT continually improves its products to provide customers with outstanding quality and reliability, therefore may change certain specifications and product descriptions at any time, without notice. Additionally, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact an nLIGHT sales representative.



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