element[®] e03t Fiber-Coupled Semiconductor Laser



45W, 878.6nm, 200µm Wavelength Stabilized

Item Number : 1130114

	Unit	Minimum	Typical	Maximum
Optical Specifications				
CW Output Power	W		45	
Wavelength Peak	nm	877.9	878.6	879.3
Spectral Width (FWHM)	nm		0.3	0.7
NA within 95% Power Enclosure	-		0.165	
Fiber Core / Clad Diameter	μm		200 / 220	
Fiber NA / Index Type / Cladding Type	-	0.22 NA / Step Index / Dual Clad		
Back Reflection Isolation 1060 - 1200nm	dB	15		
Electrical Specifications				
Electrical-to-Optical Efficiency	%		51	
Threshold Current	A		1.8	
Operating Current	A		17.5	19.0
Operating Voltage	V		5.0	5.4
Wavelength Stabilized Operating Current 5	A	9.0		21.0
Thermal Specifications				
Operating (Housing) Temperature ³	°C		+30	
Storage Temperature ³	°C	-25		70
Wavelength Temperature Coefficient	nm / °C		0.01	
Wavelength Current Coefficient	nm / A		0.01	
Mechanical Specifications				
Mass	g		70	
Fiber Length	m	1.4	1.5	1.6
Active Fiber Bend Radius	mm	35		
Product Information				
Item Description	-	e03t-03-045-0878.6-0.7-200-0.22-SI-SMA-1.5-KL-VBG		
Fiber Jacketing	-	3 mm Kevlar Reinforced Tubing		
Fiber Termination	-	SMA		
Export Control Classification Number (ECCN)	-	EAR99		

Notes

1 Product image not necessarily representative of exact appearance.

2 Production specifications shown are for beginning of life performance at the typical operating temperature. End of life operating current (lop) is 110% beginning of life lop.

3 A non-condensing environment with relative humidity between 5 - 85% is required for operation and storage.

4 Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR).

5 Wavelength stabilized to > 95% power in band of 877.1nm to 880.1nm at the rated operating temperature.

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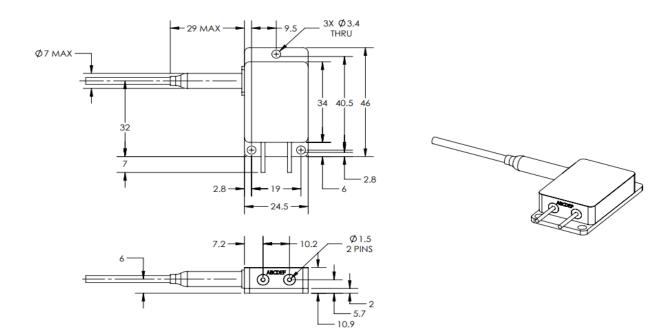


element e03t

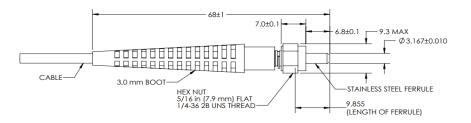
3 mm Kevlar Reinforced Tubing High Power SMA 905

Mechanical Drawings

Item Number : 1130114



ALL DIMENSIONS IN mm WITH ±0.25mm TOLERANCE.



SMA TERMINATION DRAWING



nLIGHT continually improves its products to provide customers outstanding quality and reliability. The information contained herein is subject to change without notice.

This product is not certified in accordance with IEC 60825-1 or 21CFR1040.10/21CFR1040.11 and is solely intended to be integrated into a laser product certified by the Purchaser. The Purchaser acknowledges that their product (incorporating nLIGHT laser product) must comply with the applicable regulations before it can be sold.

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