# element® e03

### **Fiber-Coupled Semiconductor Laser**



Item Number: 1098952

### 20W, 808nm, 200µm

2011, 00011111, 200pi111		item Number : 1030332		
	Unit	Minimum	Typical	Maximum
Optical Specifications				
CW Output Power	W		20	
Wavelength Centroid	nm	805.0	808.0	811.0
Spectral Width (FWHM)	nm		1.8	4.0
NA within 95% Power Enclosure	-		0.14	
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	%		45	
Threshold Current	А		2.0	
Operating Current	А		8.3	10.0
Operating Voltage	V		5.3	5.8
Thermal Specifications				
Operating (Housing) Temperature <sup>3</sup>	°C		+30	
Storage Temperature <sup>3</sup>	°C	-25		70
Wavelength Temperature Coefficient	nm / °C		0.28	
Wavelength Current Coefficient	nm / A		0.70	
Mechanical Specifications				
Mass	g		60	
Fiber Length	m	1.4	1.5	1.6
Active Fiber Bend Radius	mm	35		
Product Information				
Item Description	-	e03-03-020-0808-3-200-0.22-SI-SMA-1.5-KL		
Fiber Jacketing	-	3 mm Kevlar Reinforced Tubing		
Fiber Termination	- 1	SMA		
Export Control Classification Number (ECCN)	-	EAR99		

#### Notes

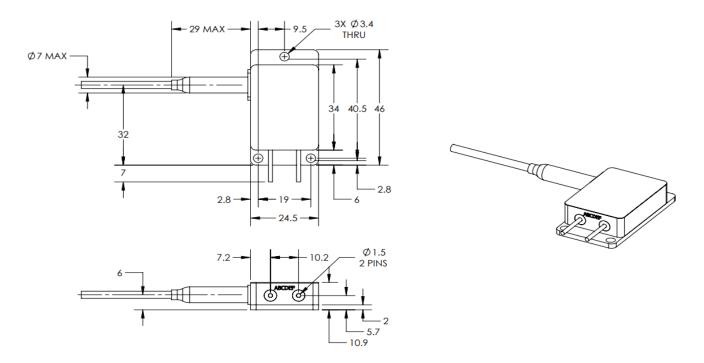
- Product image not necessarily representative of exact appearance.
- 2 Production specifications shown are for beginning of life performance at the typical operating temperature. End of life operating current (lop) is 110% beginning of life lop.
- 3 A non-condensing environment with relative humidity between 5 85% is required for operation and storage.
- 4 Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR).



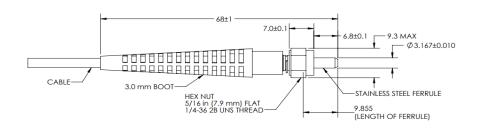
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# 3 mm Kevlar Reinforced Tubing High Power SMA 905

#### **Mechanical Drawings**



ALL DIMENSIONS IN mm WITH ±0.25mm TOLERANCE.



SMA TERMINATION DRAWING





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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.



