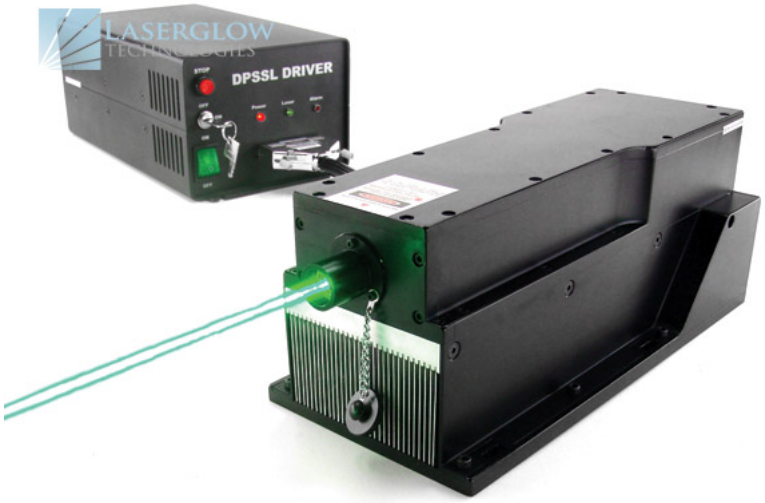
Laserglow Product Datasheet

LRS-0532 DPSS Laser System

Laserglow Part Number: R5315BXSX

This model is listed as **inactive** in our product database. Stock may be limited, and availability is subject to change without notice.



Similar Products:

For information about the other lasers in this product family visit:

http://www.laserglow.com/R53

Ordering:

Order Online Now or Request Quote:

http://www.laserglow.com/R5315BXSX

Series Specifications:

Nominal Wavelength	532 nm
Output Type	CW
Laser Source Type	DPSS

Overview:

The LRS-0532 Series of Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring 5 mW to >20 W of 532 nm laser light with a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for fluorescence excitation, PIV, Raman Spectroscopy, laser display and a broad spectrum of other applications. The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions.

Available with TTL and Analog modulation, and in a wide array of output power and stability levels, Laserglow products are currently being used by some of the world's top universities and other prominent research facilities.

Key Features:

- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- TTL and Analog modulation (input via BNC connector) *lab-spec models only*
- Specially-tuned for clean modulation responses from 1-100 Hz *(on selected models)*
- Adjustable output power (via lockable dial) *lab-spec models only*
- LED display showing LD current, laser cavity temperature *lab-spec models only*
- FDA CDRH Compliant Class IIIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- BNC Connector (LabSpec models only)
- Keys, Safety Interlock
- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number R5315BXSX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to R5315BXSX have been highlighted below in **red + bold**.

Output Power (mW)	<5, >100, >200, >300	>100, >200	>300	>500, >1000, >1500	**>1500**, >2000, >2500	>3000, >4000, >5000	>8000, >10000, >12000, >15000, >18000, >20000
Output Power Stability (%RMS/4h)	<1, <3, <5, <10	<1, <3	<1	<1, <2, <3, <5	<1, <2, <3, <5, **<10**	<1, <2, <3, <5	<1, <3, <5
Central Wavelength (nm)	531.65	531.65		532	**531.65**	531.65	531.65
Wavelength Tolerance (+/- nm)	1	1		1	**1**	1	1
Divergence (mrad, full angle)	<1.5	<1.5	<1.5	<1.5	**<1.2**	<1.5	<2
Beam Dimensions (mm, $1/e^2$)	2	0.8	2	2	**2**	1.5, 3	4
Warm-up Time (minutes)	10	5		5	**10**	10	10
Spectral Linewidth (nm)	<0.2				**<0.2**		<0.2
M^2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.3, <2, <5	<3
Polarization Ratio	>100	>100		>100	**>100**	>100	>50
Beam Pointing Stability (mrad)	<0.05	<0.05		<0.05	**<0.05**	<0.05	<0.05
IP rating		67					
Lateral Shock Tolerance (G's/6ms)		7					
Vertical Shock Tolerance (G's/6ms)		15					
Operating Temperature Range (°C)	10 to 35	1 to 60		10 to 35	**10 to 35**	10 to 35	10 to 35
Max. Analog Modulation Freq. (Hz)	150, 30000	30000	30000	30000	30000	30000	30000
Max. TTL Modulation Freq. (Hz)	150, 10000, 30000	30000	30000	30000	**10000**, 30000	30000	30000
Modulation Input Signal	0-5 VDC	0-5 VDC	0-5 VDC	0-5 VDC	**0-5 VDC**	0-5 VDC	0-5 VDC
Total Power Consumption (W)	32	30		70, 125	**125**	118	228, 232, 246, 250
Max. Power Input Duty Cycle	100%	100%	100%	100%	**100%**	100%	100%
Standard Warranty (months)	12	12	12	12	**12**	12	12
MTTF (operational hours)	10000	10000	10000	10000	**10000**	10000	10000
Weight of Product or Laser Head (kg)	0.6		0.2	2	**1.6**	2.6	6.1
Beam Height from Base Plate (mm)	24.8	19	15	27.4	**45**	68.2	93.5
Dimensions of Product or Laser Head (mm)	140.8 (l) x 73 (w) x 46.2 (h)	100 (l) x 50 (w) x 38 (h)	77 (l) x 30 (w) x 30 (h)	197 (l) x 70 (w) x 50 (h)	**211.5 (l) x 88 (w) x 74 (h)**	240 (l) x 99 (w) x 94 (h)	346 (l) x 140 (w) x 125 (h)

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.

Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

Specifications Page 2:

This spec sheet has been generated specifically for part number R5315BXSX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to R5315BXSX have been highlighted below in **red + bold**.

Laser Form Factor							

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

Power Supply Options:

These lasers are available with several different power supply options. The model that you have selected is highlighted below, and any other options are shown for easy reference.

	Power Supply Type:	**FM**	**FS**	**FO**	**FW**	**FF**
FDA-Compliant LabSpec 	Input Power	85v to 264v	85v to 264v	85v to 264v	85v to 264v	85v to 264v
	Power Supply Weight (kg)	1.5	1.5	2.6	5.2	2.6
	Dimensions (mm)	154 (l) x 155 (w) x 95 (h)	154 (l) x 155 (w) x 95 (h)	268 (l) x 145 (w) x 106 (h)	307 (l) x 168 (w) x 123 (h)	268 (l) x 145 (w) x 106 (h)

	Power Supply Type:	**SM**	**SF**
FDA-Compliant Standard 	Input Power	85v to 264v	**85v to 264v**
	Power Supply Weight (kg)	1.2	**2.3**
	Dimensions (mm)	133 (l) x 130 (w) x 65 (h)	**238 (l) x 146 (w) x 102 (h)**

	Power Supply Type:	**1C**
OEM 12 Volt DC 	Input Power	0v to 12v
	Power Supply Weight (kg)	0.2
	Dimensions (mm)	115 (l) x 59 (w) x 34 (h)

*Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.

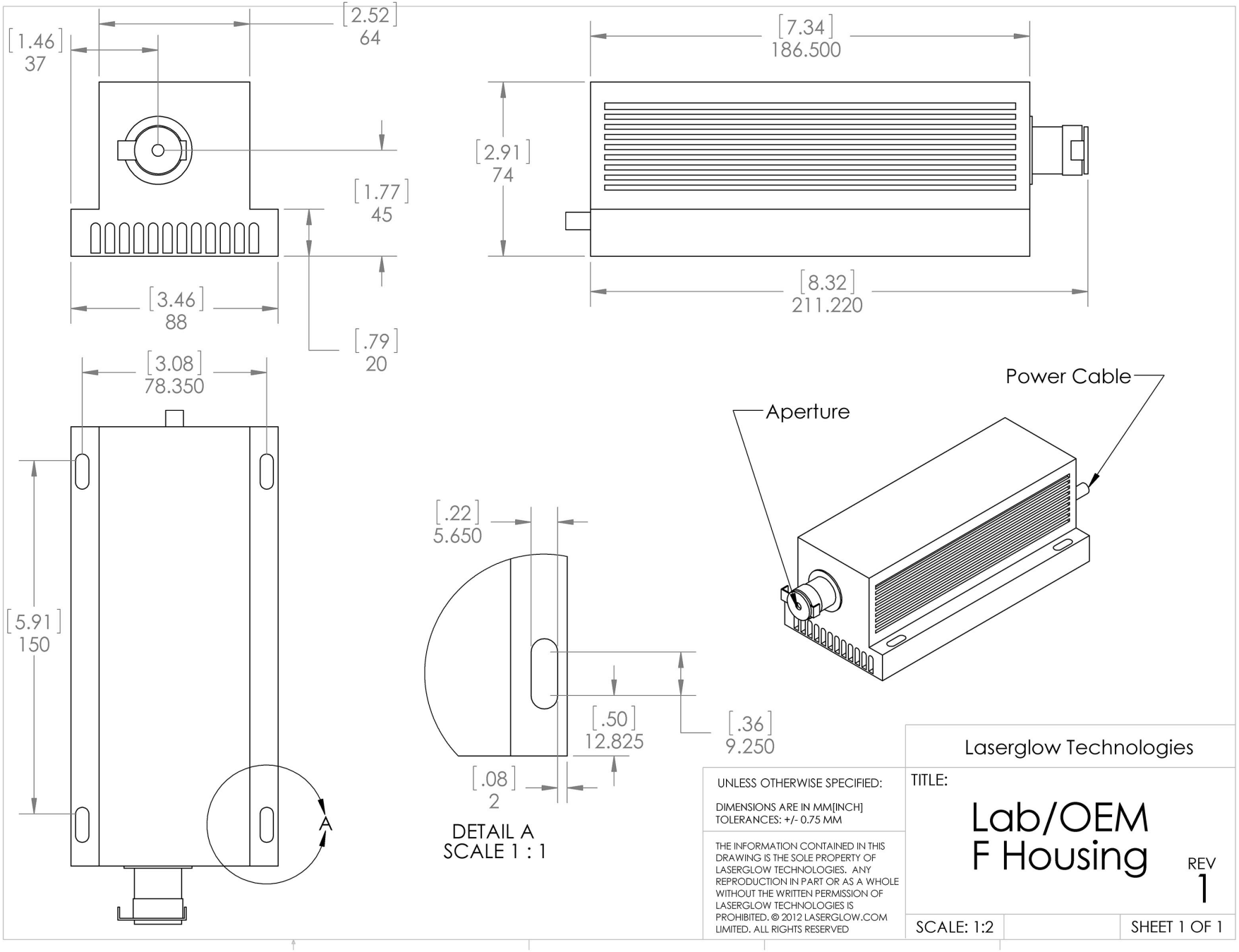
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

The model you have selected (R5315BXSX) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: F:



Laserglow Technologies

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM[INCH]
TOLERANCES: +/- 0.75 MM

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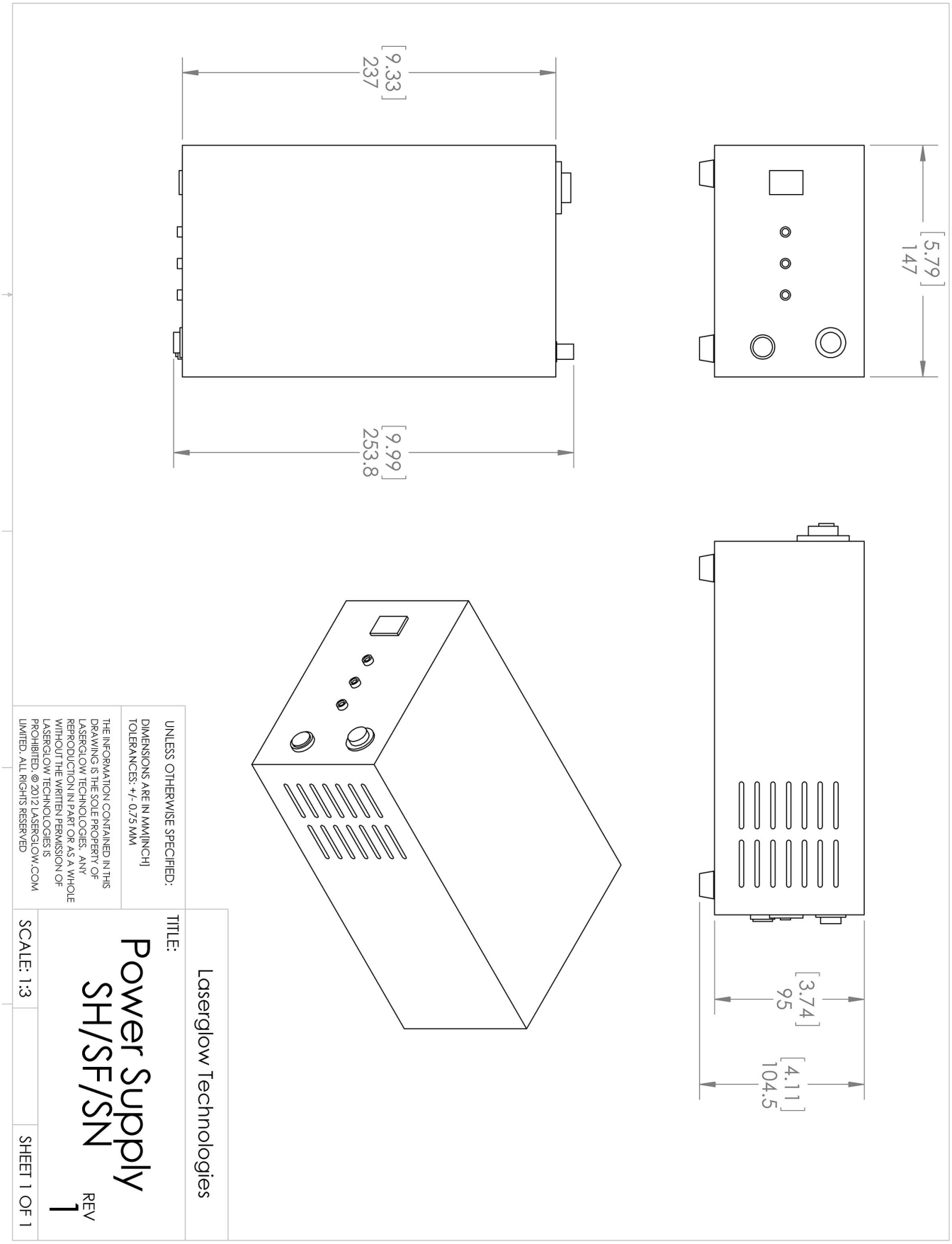
Lab/OEM F Housing

REV 1

SCALE: 1:2

SHEET 1 OF 1

Dimensional Drawing - Power Supply Form Factor: SF:



Accessories:

The most popular accessories for model R5315BXSX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.laserglow.com/AFF	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.laserglow.com/AFS	
 AGF5327XX	LSG-532-NF-7 Fit-Over Safety Goggles 532nm Output: OD 7+ at 190-532 nm CE Certified Full Details: www.laserglow.com/AGF	
 ACFVISHXA	FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
 ACSVISHXA	SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
 TBK	Complete optics kits with breadboard mounting hardware. External modulators, variable attenuators, free-space fiber launch systems Full Details: www.laserglow.com/TBK	

FOR MORE INFORMATION PLEASE CONTACT:

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E&OE: Data included in this sheet may be subject to change without notice.

Please confirm critical specifications with our staff prior to ordering.