

Applications

- Fiber optic sensing
- Optical tomography
- DWDM component
- characterization
- Optical gyroscope

Description

Amonics Superluminescent Diodes (SLDs) are high output power stable, incoherent broadband sources with board wavelength coverage including 650nm, 680nm, 750nm, 800nm, 830nm, 950nm, 980nm, 1050nm, 1270nm, 1300nm, 1480nm, 1550nm, 1580nm, and 1620nm. To meet specific requirements, Amonics' SLD can be housed in both benchtop case and compact driver-ready module. Amonics' Superluminescent Diodes (SLDs) are available in benchtop or OEM module. In the benchtop unit, the output power, alarms and driving current values are shown on the LCD display. Output power can be adjusted by tuning the front panel control knob. Also active emission button is used to enhance operation safety. 1MHz intensity modulation is also available. The OEM module version is an ideal building block for OEM system integrators especially for fiber optic sensing and optical tomography applications. It requires only a single +5V power supply with low power consumption.

Key Features

- Wide spectral range
- 1MHz Intensity Modulation
- High output power
- Good spectral stability
- Compact size
- Good performance cost ratio
- Two year warranty



SLD List

Product Code	Power in SMF (mW)		FWHM (nm)		Center Wavelength (nm)	Spectral Ripple (%)	
	Min.	Typ.	Min.	Typ.		Typ.	Max
ASLD65-002	0.1	0.2	5.0	6.0	650 ± 15	1.0	2.0
ASLD65-020	1	2	8	12	650 ± 10	2.3	4.5
ASLD68-010	1.0	1	7.0	8.5	675 ± 15	1.0	2.0
ASLD68-010	0.5	1	7.0	8.5	675 ± 15	1.0	2.0
ASLD68-010	0.5	1	7.0	8.5	680 ± 10	1.0	2.0
ASLD68-050	4	5	7	8	680 ± 15	2.0	5.0
ASLD68-050	4	5	7	8	675 ± 15	2.0	5.0
ASLD75-030	2	3	18	21	750 ± 20	2.3	4.5
ASLD75-050	3	5	10	15	750 ± 20	2.3	4.5
ASLD80-050	3	5	20	25	800 ± 20		6.7
ASLD82-075	5	7.5	57	62	840 ± 30	2.0	5.0
ASLD83-012	1.0	1.25	45	50	835 ± 15	1.0	2.0
ASLD83-030	1.5	3	15	20	830 ± 60	1.0	2.0
ASLD83-030	2	3	22	25	820 ± 20	2.3	4.5
ASLD83-050	3	5	22	25	820 ± 20	2.3	4.5
ASLD83-080	6	8	16	20	830 ± 10	3.4	6.7
ASLD83-100	7	10	13	18	820 ± 40	2.0	5.0
ASLD83-200	15	20	13	18	820 ± 40	2.0	5.0
ASLD83-300	22	30	10	14	820 ± 40	2.0	5.0
ASLD84-050	3	5	45	50	840 ± 10	2.3	6.7
ASLD84-050	3	5	45	48	840 ± 20	2.3	6.7
ASLD84-150	10	15	57	62	845 ± 15	2.0	5.0
ASLD85-050	3	5	50	55	855 ± 10	2.3	4.5
ASLD85-250	20	25	57	62	855 ± 15	2.0	5.0
ASLD86-040	3	4	60	65	860 ± 20	2.5	4.5
ASLD87-050	3	5	60	65	870 ± 10	2.3	6.7
ASLD88-050	3	5	60	65	880 ± 10	2.3	6.7

Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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Product Code	Power in SMF (mW)		FWHM (nm)		Center Wavelength (nm)	Spectral Ripple (%)	
	Min.	Typ.	Min.	Typ.		Typ.	Max.
ASLD88-070	4	7	50	60	880 ± 10	2.3	6.7
ASLD93-015	1.0	1.5	50	70	930 ± 20		2.0
ASLD93-035	3.0	3.5	60	70	930 ± 20	2.0	5.0
ASLD93-100	7.0	10.0	60	65	930 ± 20	2.0	5.0
ASLD96-100	7	10	25	35	960 ± 10	2.5	5.0
ASLD96-200	15	20	25	30	960 ± 10	2.5	5.0
ASLD96-300	22	30	25	30	960 ± 10	2.5	5.0
ASLD97-030	1.5	3.0		20	970 ± 10	1.0	2.0
ASLD100-040	2	4	90	100	1000 ± 20	3.4	6.7
ASLD102-020	1.25	2	100	110	1025 ± 15	2.0	5.0
ASLD102-020	5.0	2.0	95		1025 ± 15	2.0	5.0
ASLD102-020	1.25	2.0	100	110	1025 ± 15	2.0	5.0
ASLD102-100	5	10	100	105	1025 ± 15	2.0	5.0
ASLD104-015	1.0	1.5	50	70	1035 ± 15	2.0	5.0
ASLD104-015	1.0	1.5	50	70	1045 ± 15	2.0	5.0
ASLD104-050	4	5	20	35	1045 ± 15	2.0	5.0
ASLD105-050	4.0	5.0	20	35	1050 ± 20	2.0	5.0
ASLD105-100	7	10	25	30	1050 ± 10	2.0	5.0
ASLD105-200	15	20	30	35	1050 ± 10	2.0	5.0
ASLD105-300	22	30	30	35	1050 ± 10	2.0	5.0
ASLD105-100	5	10	25	30	1050 ± 10	2.0	5.0
ASLD105-200	15	20	30	35	1050 ± 10	2.0	5.0
ASLD105-300	15	30	30	35	1050 ± 10	2.0	5.0
ASLD118-010	0.75	1.0	25	30	1180 ± 15	2.0	5.0
ASLD118-010	0.75	1.0	25	30	1180 ± 10	2.0	5.0

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Product Code	Power in SMF (mW)		FWHM (nm)		Center Wavelength (nm)	Spectral Ripple (%)	
	Min.	Typ.	Min.	Typ.		Typ.	Max.
ASLD127-080	5	8	30	35	1270 ± 20	3.4	6.7
ASLD127-200	15	20	25	30	1270 ± 20	3.4	6.7
ASLD128-010	0.75	1.0	60	70	1290 ± 40	2.0	5.0
ASLD130-005	0.35	0.5	30	40	1300 ± 30	2.0	5.0
ASLD130-010	0.75	1.0	30	40	1300 ± 30	2.0	5.0
ASLD130-015	1	1.5	55	60	1300 ± 20	2.3	4.5
ASLD130-020	1.5	2.0	30	40	1300 ± 30	2.0	5.0
ASLD130-050	3	5	30	35	1300 ± 30	2.5	5.0
ASLD130-080	5	8	35	40	1310 ± 20	3.4	6.7
ASLD130-100	7	10	30	35	1300 ± 30	2.5	5.0
ASLD130-200	18	20	50	55	1300 ± 20	3.4	6.7
ASLD130-300	15	20	55	60	1320 ± 20	3.4	6.7
ASLD130-250	18	25	40	45	1300 ± 20	3.4	6.7
ASLD131-080	5	8	35	40	1310 ± 20	3.5	7
ASLD132-200	15	20	55	60	1320 ± 20	3.5	7
ASLD138-020	1	2	40	50	1380 ± 20	3.5	7
ASLD139-003	0.25	0.35	75	85	1390 ± 20	1	2.5
ASLD139-020	1.5	2.0	60	65	1390 ± 20	2.5	5.0
ASLD139-080	5	8	30	40	1390 ± 20	3.5	7
ASLD144-050	0.35	0.5	40	45	1525 ± 85	2.0	5.0
ASLD148-010	0.6	1	50	60	1480 ± 20	2.3	4.5
ASLD148-080	5	8	35	40	1470 ± 20	3.4	6.7
ASLD148-150	10	15	35	40	1480 ± 20	4.5	8.8
ASLD152-010	0.75	1.0	40	55	1525 ± 85	2.0	5.0
ASLD155-025	1	2	50	60	1550 ± 20	2.3	4.5
ASLD155-100	7	10	55	65	1550 ± 20	3.4	6.7
ASLD158-200	15	20	57	65	1580 ± 20	3.4	6.7
ASLD160-150	10	15	40	50	1620 ± 20	4.5	8.8
ASLD161-020	1.5	2.0	40	70	1585 ± 20	2.0	5.0
ASLD162-150	10	15	40	50	1620 ± 20	4.5	9

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General Environmental Parameters

Parameter	Unit	Benchtop	Module
Operation Temperature Range	°C	0 to +40	0 to +60
Storage Temperature Range	°C	-10 to +70	-10 to +70
Power Supply	V	90 – 240VAC, 47 – 63Hz	5.0VDC
Dimensions	mm	260(W) x 330(L) x 120(H)	100(W) x 120(L) x 18(H)
Electrical Connector	-	NA	14-pin MIL Socket
Protection	-	SLD over heat warning	SLD over heat warning
LCD Display	-	Output Power (mW)	NA
Control	-	Keylock switch, output power	NA
Computer Interface	-	RS232 / Ethernet	NA
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC	
Optical Fiber	-	Single mode fiber	

Option:

- Intensity Modulation up to 1MHz
- PM fiber coupling
- Output Isolation
- Input Power Monitoring
- Benchtop or 19"Rackmount Housing



Ordering Information

Product Code	ASLD-xx-yyy-a-bb	xx: Wavelength yyy: typical output power a: M for module, B for Benchtop bb: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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