

Integrated Box SLED



BX9 Series



BX10 Series



BZ1 Series

FEATURES

- Wavelength from 1200nm to 1700nm
- Optical power of 3 to 50mW
- Wide 3dB spectral bandwidth of up to 100nm
- CW operation or direct-modulation (analog & digital inputs)
- Operating temperature -20 to 70°C
- Telcordia certification, RoHS Compliance, UL-Recognized

APPLICATIONS

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| <ul style="list-style-type: none"> ▪ Communications ▪ Medical applications ▪ Energy, oil and gas ▪ Industrial controls ▪ Environmental sensing ▪ Defense & security | <ul style="list-style-type: none"> - affordable gigabit bandwidth fiber-link to homes and business (FTTX), test & measurement for telecom networks - OCT (biopsies-less medical cell imaging, diagnostic imaging), point of use/ handhelds/ non-invasive diagnosis (blood analysis) - sensing in gas & oil production, telemetry in electricity distribution - in-line production process monitoring, 3D metrology and surface metrology, semiconductor fabrication (solar cells), chemical and gas sensing – safety, emission control, security - physical (temp, pressure, strain, vibrations), structural and civil engineering, smart structures, intelligent distributed sensing - perimeter defense, navigation and guidance - inertia sensing (gyroscope), infrared illumination for surveillance and speckle-free military imaging |
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Superluminescent Light Emitting Diode Integrated Box Form Factor with complete Driver and Controller

Greater Convenience for You

We have packaged our DL-CS series of 14 pin butterfly SLEDs into a complete solution that incorporates a high precision controller for high output level and excellent stability of the superluminescent diodes output; giving you greater convenience of usage!

The DL-BX9/BX10 series consists of a built-in current driver, a temperature controller and a DenseLight standard 14 pin butterfly package DL-CSxxxxA.

Similarly, the DL-BZ1 series consists of a temperature controller, a DenseLight standard 14-pin butterfly package CL-CSxxxxA and a built-in current driver capable for CW driving, digital or analog modulation input.

Wavelength Range (nm)	Product Code DL-BX9-CSXXXXA or DL-BX10-CSXXXXA	Min Power (mW)	Typ BW FWHM (nm)	Spectral Typ Ripple (dB)
1260 - 1290	2079A	7	75	0.15
	2184A	18	40	0.15
1290 - 1330	3055A	5	50	0.15
	3089A	8	75	0.2
	3102A	10	30	0.15
	3152A	15	30	0.15
	3159A	15	83	0.25
	3184A	18	42	0.15
	3202A	20	30	0.2
	3207A	20	56	0.15
	3307A	30	58	0.25
	3404A	40	43	0.25
	3452A	40	32	0.35
	3504A	50	38	0.3
1330 - 1370	35H5A	13	48	0.2
1380 - 1420	40H2A	15	35	0.2
1415 - 1445	43H4A	15	45	0.2
1430 - 1470	44H4A	15	45	0.2
1460 - 1500	48H5A	15	50	0.2
1530 - 1570	5037A	3	60	0.15
	5077A	5	60	0.2
	5107A	8	60	0.2
	5103A	10	40	0.15
	5153A	15	40	0.2
	5169A	16	80	0.3
	5203A	20	40	0.25
	5254A	25	40	0.25
5403A	35	40	0.35	
1560 - 1600	58M7A	5	58	0.15
1580 - 1620	6055A	5	55	0.15
	6107A	8	60	0.15
1600 - 1630	62M7A	8	60	0.15
1635 - 1690	65M5A	10	50	0.2
	69M5A	10	50	0.2

FEATURES

- CW operation (Excellent stability <0.01dB)
- Built-in current driver and temperature controller
- Single +5.0V power supply
- High wall-plug efficiency
- Integrated optical isolator (optional)

EXTRA FEATURES IN DL-BX10 SERIES

- Over temperature protection and internal PCB temperature monitor
- Active-Low optical power enabled function

EXTRA FEATURES IN DL-BZ1 SERIES

- Analog intensity modulation up to 20MHz
- Pulse or digital modulation up to 200MHz

PHYSICAL & MECHANICAL SPECIFICATIONS

- BX9 Dimension: L100 x W80 x H16 mm
- BX10 Dimension: L100 x W80 x H20 mm
- BZ1 Dimension: L100 x W88 x H22.5 mm
- Optical output: SMF-28/ PMF cable with FC/APC or FC receptacle

