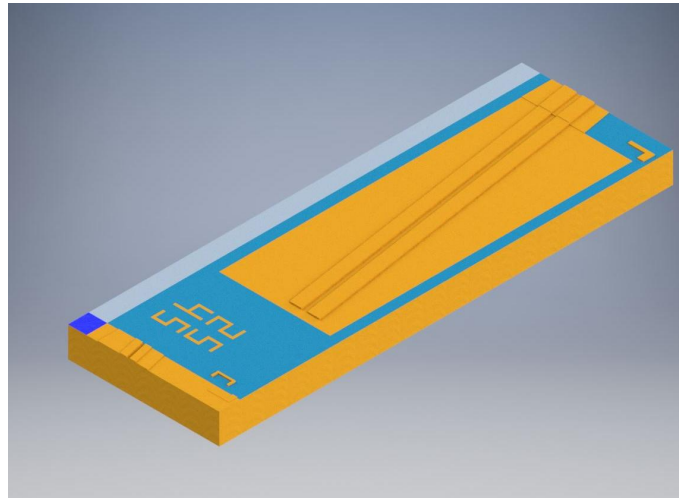


1590nm Low DOP SLD Chip



Description

The SLD-CHIPS-A-A82-W1590 series is a broadband SLED that operates in a true inherent superluminescent mode. This 1590nm Superluminescent Chip on Submount superluminescent property generates broader band at higher drive currents in contrast to other conventional SLEDs which are ASE-based, where high drive tends to give narrower band. Its low coherence reduces Rayleigh backscattering noise. Coupled with high power and large spectral width, it offsets photoreceiver noise and improves spatial resolution (in OCT) and measurand sensitivity (in sensors). The SLED is available in Chip on submount package. It is compliance with the requirements of Bellcore Document GR-468-CORE.

Features

- Optical output: 2-5mW
- High optical output power
- Wide spectral half width

Application

- Fiber transmission systems
- Fiber optic gyros
- Fiber optic sensors
- Optical coherence tomography
- Testing Light source

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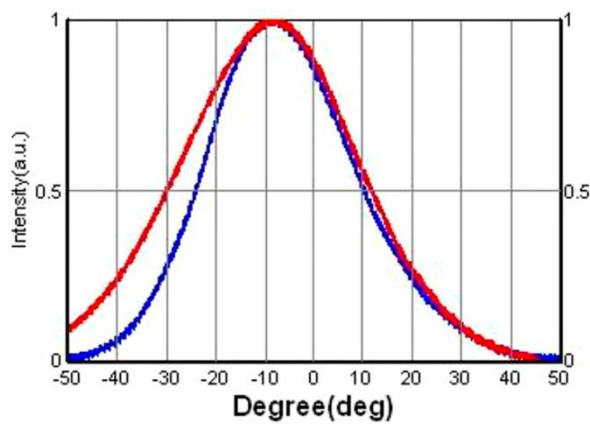
info@ld-pd.com

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E/O Characteristics

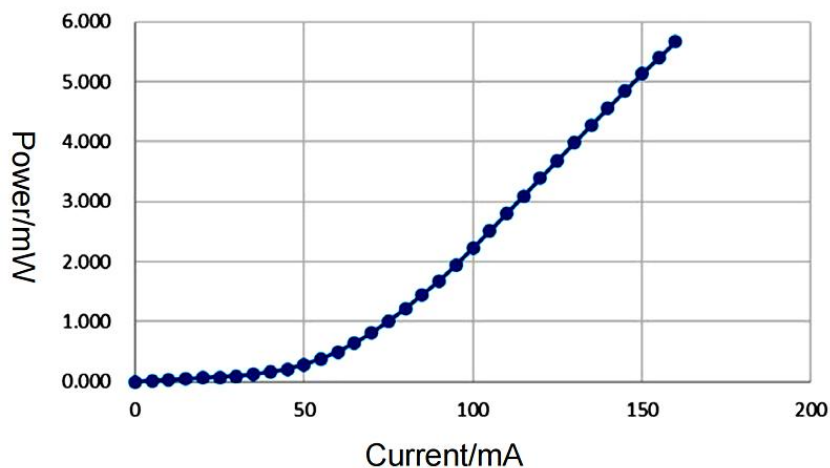
Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Centre wavelength	Ac	1575	1590	1605	nm	100 mA
Operation Current	Iop	-	100		mA	100 mA
Optical Output Power	Pf	2			mW	100 mA
Spectral Width	$\Delta\lambda$	35			nm	100 mA
Spectral power variation (ripple)	R	-	0.1	0.2	dB	100 mA
Polarization dependent output (TE/TM)	-	13	-	-	dB	100 mA

Divergence Angle



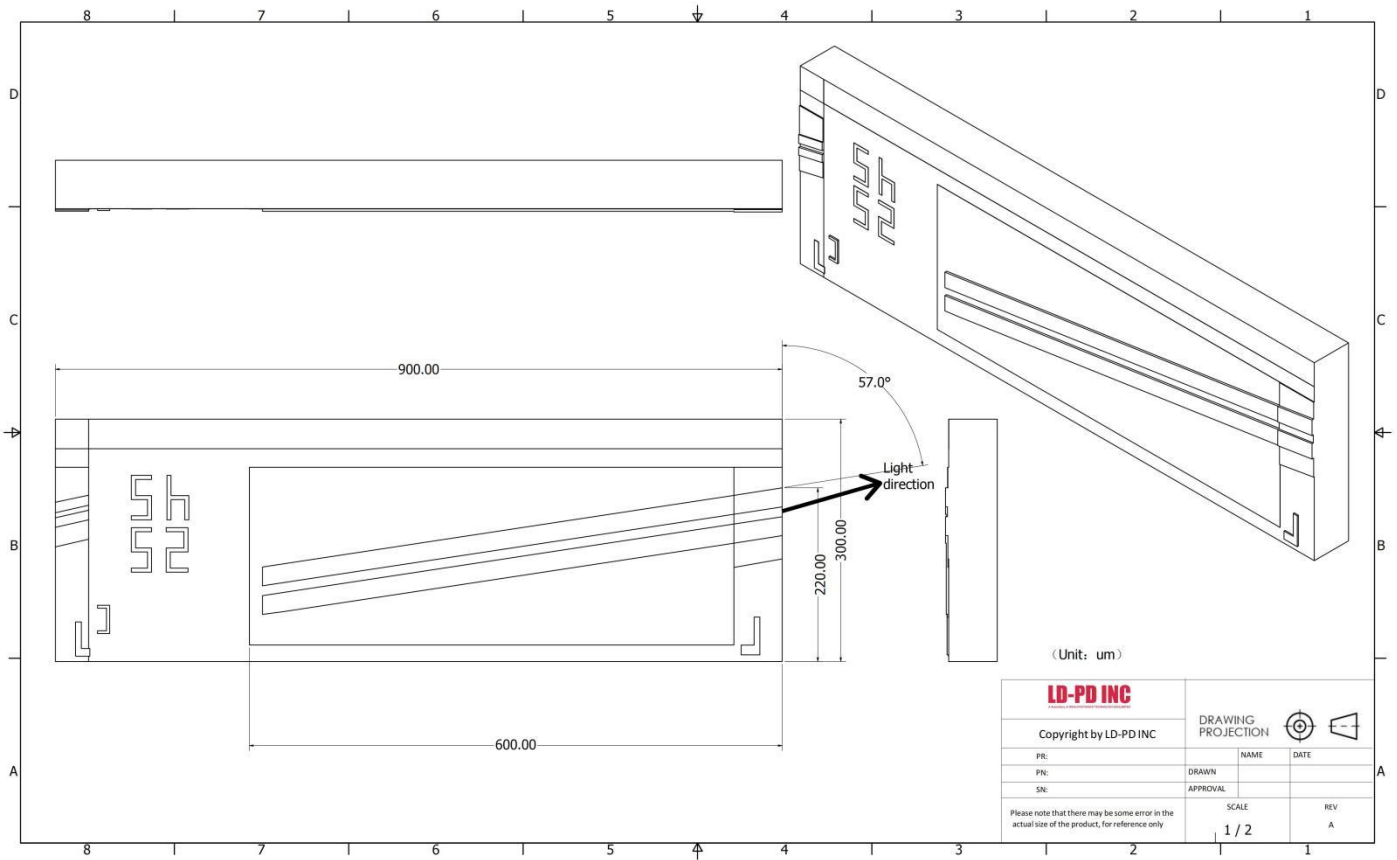
Horizontal divergence Angle $\theta_{//}$: 34.13°
Vertical divergence Angle θ_{\perp} : 41.56°

COC PIV curve





Package Size



Ordering Info

SLD-Chips-☆-A8▽-W□□□□

☆: Output Power

A: 2mW

B: 3mW

▽: Wavelength Tolerance

1: ±5nm

2: ±10nm

□□□□: Wavelength

1550: 1550nm

1590: 1590nm