

# SLD-16C series

## AlGaAs Superluminescent Diodes Metal-Glass Sealed Package

### Features:

- High optical output power
- Low coherence
- With conductive or thermoelectric (TE) cooler

### Applications:

- Optical fiber gyros and sensors
- Optical low coherence tomography (OCT)
- Optical communications
- Optical measurements systems



### SLD-16C type

Parameter	Test conditions	Min	Typ	Max	Unit
Average Output Power	in solid angle 60 cone-arc degrees		10.0		mW
Operating Current	@ max average output power			200	mA
Operating Voltage	@ max average output power			2.5	V
Emission Wavelength		800	830	860	nm
Spectral Width (FWHM)	@ 0.3 mW 3.0 mW 10.0 mW	25-30 15 13			nm
Ripple Amplitude	@ 0.3 mW 3.0 mW 10.0 mW			0.1 1 2	%
TE Cooler Operating Voltage		2	2.2	2.4	V
TE Cooler Operating Current		2.7	3.0	3.3	A
Thermistor Resistance @ 20 ± 2°C			10		kOhm
Temperature Coefficient of Resistance			from - 3.6 to - 4.0		%/deg C
Dimensions of Emitting Area on the SLD Chip Facet (FWHM)			1 x 5		microns
Beam Divergence in Planes Perpendicular/Parallel to Active Layer	@ 0.3 mW 3.0 mW 10.0 mW		50 / 120 50 / 40 50 / 40		arc degrees
Polarization Ratio of Optical Output	@ 0.3 mW 3.0 mW 10.0 mW		0.03 0.3 0.5		
Package Type	#6 or #315				