

1550 nm laser diode- DFB

Model 6: Special narrow linewidth version with >100 mW

Singlemode fiber / 14 pin Butterfly package

Reference: 1550LD-6b-0-0-1/2 (SMF or PMF)

Technology: DFB*

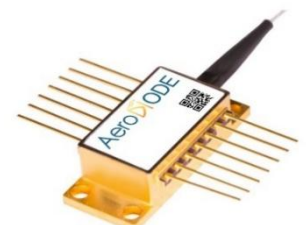
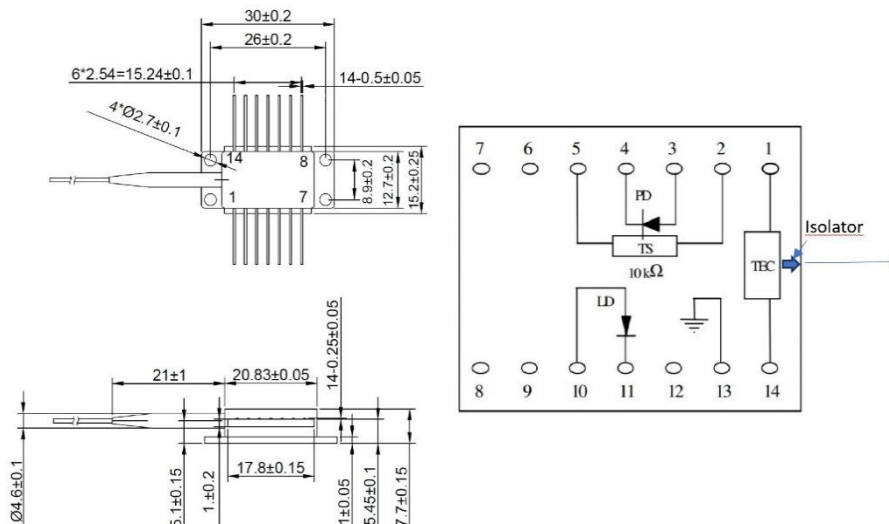
SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode)	mW	100		
Output Power (Pulse mode)	mW		125	
Isolator			Yes**	
Center Wavelength (CW)	nm	1548	1550	1552
Spectral Width (FWHM) (Phase noise method-1 MHz)	kHz		20	50
Threshold Current	mA		20	40
Operating Current	mA		400	550
Operation Voltage	V		1.6	1.8
Wavelength shift w Temperature	nm/°C		0.08	
Wavelength shift w Current	nm/mA		0.003	
Side mode suppression ratio	dB	35	50	
Internal Photodiode Responsivity	mA/W	5		
Internal Photodiode Dark Current	nA			500
TEC current (-5/60°C)	A			1
TEC Voltage (-5/60°C)	V			1.5
Internal thermistor (25°C)	kOhm	9.5	10	10.5
Fiber type (PM Option)	SMF28 (PM1550) or equivalent			
Coating diameter	μm		900	
Fiber bend radius	mm	30		
Storage case temperature	°C	-40		70
Case operating temperature	°C	-20		60
Lead soldering temperature	°C	255	260	265
Pigtail termination	FC/APC connector			
Polarization state (PM version)	Aligned to the slow axis			

*: See our tutorial: [fiber coupled laser diode](#)

** : Possibility to specify a version without isolator

Form factor & Laser diode pinning (standard 14-pin Butterfly Type-1):

Note: other pin configurations are available on demand: Type-2, Type2 Bias-T etc.



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