

1550 nm laser diode - DFB

Model 2 : >40 mW / singlemode fiber / 14 pin Butterfly package

Reference: 1550LD-2-0-0-1/2

Technology : DFB*

SPECIFICATIONS		Min		Maximum
Output Power (CW mode)	mW	40		
Output Power (Pulse mode)	mW		80	
Center Wavelength (CW)	nm	1545	1550	1555
Spectral Width (FWHM)	kHz		160	200
Threshold Current	mA		8	20
Operating Current	mA		300	350
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		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
Laser diode reverse voltage	V			15
Pigtail termination		FC/APC connector		
Polarization state (PM version)		Aligned to the slow axis		

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

