

1525 nm laser diode- DFB

Model 1 : >10 mW / singlemode fiber / 14 pin Butterfly with isolator / SMF or PMF

Reference: 1525LD-1-SM/PM-II

Technology: DFB*

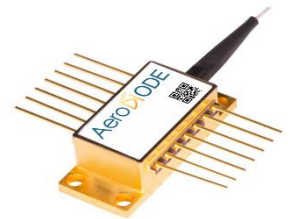
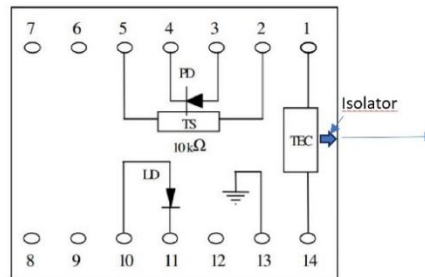
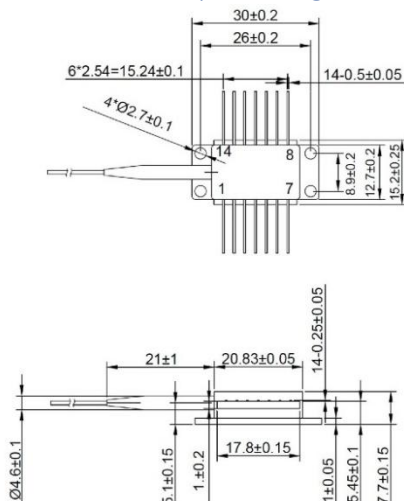
SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode)	mW	10	-	-
Output Power (Pulse mode)	mW	-	20	-
Center Wavelength (CW)**	nm	1520	1525**	1530
Isolator (Note : contact us for special version with no isolator or double stage isolator)	dB	-	25	-
Spectral Width (FWHM)	MHz	-	1-2	-
Threshold Current	mA	-	8	20
Operating Current	mA	-	60	70
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)	kΩ	9.5	10	10.5
Fiber type	SMF28/PM1550 or equivalent			
Coating diameter	μm	-	900	-
Fiber bend radius	mm	-	-	30
Storage case temperature	°C	-40 (abs min)	-	70 (abs max)
Case operating temperature	°C	-20	-	60
Lead soldering temperature	°C	-	260	300
Laser diode reverse voltage	V	-	-	15
Butterfly pin configuration***	Type-1***			
Pigtail termination	FC/APC connector			
Internal Isolator	Yes			
Polarization state (PM version)	Aligned to the slow axis			

*: See our tutorial: [fiber coupled laser diode](http://www.aerodiode.com)

** : Possibility to specify a precise wavelength – contact us

***: Possibility to request another butterfly pin configuration: Type-2, Type-2 bias-T, Type 2 bias-T anode grounded...

Form factor & laser diode pin configuration (standard 14-pin Butterfly Type-1)*** :



Other pin configurations:

