

1310 nm laser diode- DFB- 300mW

Model 5a: 300 mW / singlemode fiber / 14 pin Butterfly with isolator / SMF or PMF

Reference: 1310LD-5a-0-0

(-ø or 0 or 1: SMF; -2: PMF)

Technology: DFB*

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode)	mW	250	280	
Output Power (Pulse mode)	mW		>300	
Center Wavelength (CW)**	nm	1308	1310**	1313
Isolator (Optional)	dB		25	
Spectral Width (FWHM)	KHz		200	500***
Threshold Current	mA		20	50
Operating Current	mA		900	1650
Operation Voltage	V		2.8	3.3
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			1.5
TEC Voltage (-5/60°C)	V			2.0
Internal thermistor (25°C)	kΩ	9.5	10	10.5
Fiber type	SMF28-e/ultra or equivalent (PM version: PM1300 or eq.)			
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			
Polarization state (PM version)	Aligned to the slow axis			

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

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

*** : With a relevant ultra-low noise driver – Phase noise measurement method @ 1MHz

**** : 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) *** :

