

850 nm laser diode

Model 1: 40 mW / DFB singlemode fiber /

14 pin Butterfly / SMF or PMF

Reference: 850LD-1-SM/PM-II

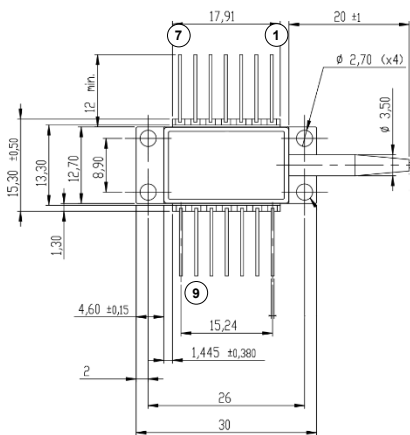
Technology: DFB*

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode)	mW	40	-	-
Center Wavelength**	nm	850.6	852	853.5
Spectral Width (FWHM)	kHz	-	500	-
Threshold Current	mA	-	40	70
Operating Current	mA	-	120	200
Operating Voltage	V	-	-	2
Side Mode Suppression Ratio	dB	30	40	-
TEC Current	A	-	-	2.5
TEC Voltage	V	-	-	4.8
Storage temperature	°C	-40	-	85
Operating temperature	°C	0	-	50
Pin soldering temperature (max 10 sec)	°C	-	-	260
Laser diode reverse voltage	V	-	-	2
Butterfly pin configuration	Type-1			
Fiber type (with PM option)	HI780 (PM780)			
Pigtail termination	FC/APC			
Polarization state (PM version)	Aligned to the slow axis			
PER	dB		>15	
Internal isolator	Yes			

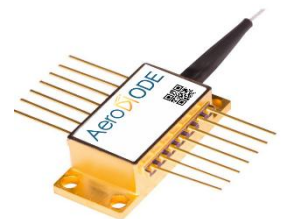
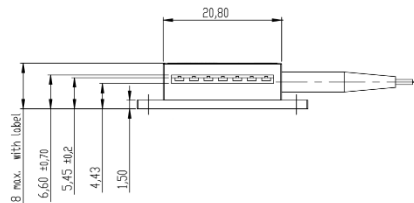
*: See our tutorial: [fiber coupled laser diode](http://www.aerodiode.com)

** : Possibility to target a special wavelength

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



Dimensions are in mm.



PIN	FUNCTION	PIN	FUNCTION
1	TEC (+)	8	NC
2	Thermistor	9	NC
3	Monitor PD Anode	10	LD Anode (+)
4	Monitor PD Cathode	11	LD Cathode (-)
5	Thermistor	12	NC
6	NC	13	Ground
7	NC	14	TEC (-)



Laser diodes are classified based on continuous operation - Contact us for any special requests regarding classification or power limitation.