

1480 nm laser diode

Model 3: >400 mW / singlemode fiber / 14 pin Butterfly package

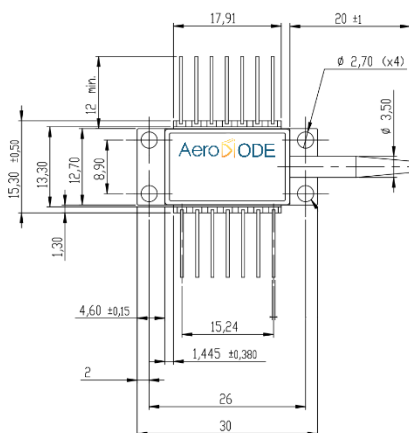
Reference: 1480LD-3-0-0-2 (PM only)

Technology: Fabry-Perrot with Bragg*

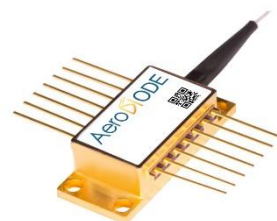
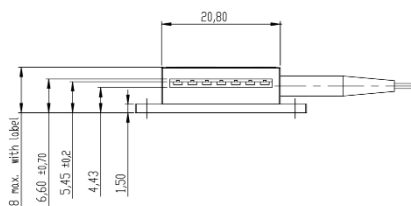
SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode – kink free)	mW	400		
Output Power (Pulse mode)	mW		>600	
Center Wavelength (CW)	nm	1479	1480	1481
Spectral Width (FWHM)	nm		1	2
Threshold Current	mA		70	120
Operating Current	mA		1300	
Operation Voltage	V		1.6	2.0
Wavelength shift w Temperature	nm/°C			0.015
Side mode suppression ratio	dB	35	50	
Internal Photodiode Responsivity	mA/W	0.2		10
Internal Photodiode Dark Current	nA		100	
TEC current (-5/60°C)	A		1	
TEC Voltage (-5/60°C)	V		2.2	
Internal thermistor (25°C)	kOhm	9.5	10	10.5
Fiber type (PM only)	PM1550 or equivalent			
Coating diameter	μm		250	
Fiber bend radius	mm	16		
Storage case temperature	°C	-40		85
Case operating temperature	°C	-5		70
Lead soldering temperature	°C		260	300
Laser diode reverse voltage	V			2
Pigtail termination	Ferrule only or FC/APC			
Polarization state (PM only)	Aligned to the slow axis			

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

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	Laser Anode (+)
4	Monitor PD Cathode	11	Laser Cathode (-)
5	Thermistor	12	NC
6	NC	13	Ground
7	NC	14	TEC (-)