1450 nm laser diode

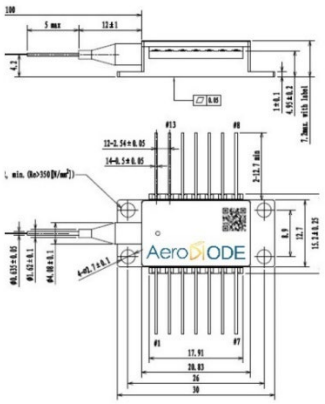
Model 3 : >400 mW / singlemode fiber / 14 pin Butterfly package

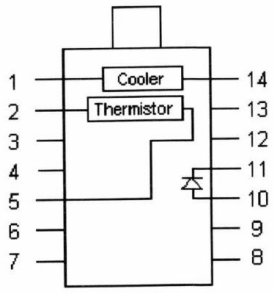
Reference: 1450LD-3-0-0-2 (PM only) Technology : Fabry-Perrot with Bragg*

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode – kink free)	mW	400		
Output Power (Pulse mode)	mW		>600	
Center Wavelength (CW)	nm	1454	1455	1457
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	None		
Internal Photodiode Dark Current	nA	None		
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 pinning (standard 14-pin Butterfly Type-1) :





1	Cooler (+)	14	Cooler (-)
2	Thermistor	13	Case ground
3	NC	12	NC
4	NC	11	Lase Cathode
5	Thermistor	10	Laser Anode
6	NC	9	NC
7	NC	8	NC

AERODIODE - Institut d'optique d'Aquitaine - Rue François Mitterrand
33400 Talence - France - Tél. : +33 (0)6 27 69 41 52
contact.aerodiode@aerodiode.com - **www.aerodiode.com**
SIRET 880 329 636 00018 - N° TVA intracommunautaire : FR 87880329636