1064 nm laser diode - DFB

2 models > 200 mW / PM singlemode fiber / 10-pin Butterfly package*

- Model "2a" optimized for pulsing
- Model "2b" optimized for CW & modulation

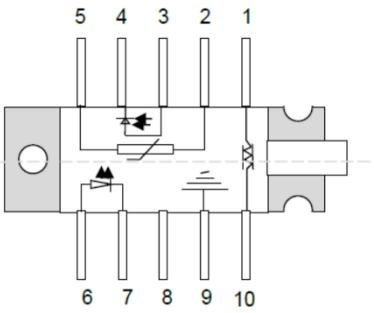
Reference: 1064LD-(2a or 2b)-0-0 Technology : DFB**

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode)	mW	200	220	
Output Power (Pulse mode)	mW	500	700	850
Center Wavelength (CW)	nm	1063.0	1064.0	1065.0
Center Wavelength (Pulse)	nm	1062.5	1063.3	1064.5
Spectral Width (FWHM – model 2a for pulsing)			MHz range	
Spectral Width (FWHM – model 2b for CW)			~200 kHz	
Threshold Current	mA		30	70
Operating Current	mA		350	400
Operation Voltage	V		1.7	2.5
Wavelength shift w Temperature	nm/°C		0.06	
Wavelength shift w Current	nm/mA		0.0025	
Polarization Extinction Ratio	dB	15	20	
Internal Photodiode Responsivity	mA/W	0.5		10
Internal Photodiode Dark Current	nA			100
TEC current (Case @ 75°C)	A			1.4
TEC Voltage (Case at 75°C)	V			3.2
Internal thermistor (25°C)	kOhm	9.5		10.5
Fiber type	PM fiber : SM98-PS-U25D-H or Nufern PM980-HP			
Fiber bend radius	mm	20 (abs min)		
Coating diameter	µm	230	250	270
Storage case temperature	°C	-40 (abs min)		85 (abs max)
Lead soldering temperature	°C			350
Laser diode reverse voltage	V			2.0
Pigtail termination	Bare fiber			
Polarization state	Aligned to the slow axis			

* 10 pin Butterfly packages are compatible with all AeroDIODE Drivers (the pinning is very similar to a Type-1 Butterfly laser diode pinning)
** See our tutorial : fiber coupled laser diode

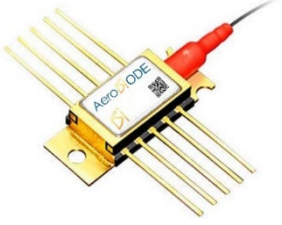
Important note: these 2 models 2a end 2b are NOT guaranteed mode hop free. Select model 2c for a 100% mode hop free operation when scanning.

Form factor:



Laser diode pin :

Pin	Description	Pin	Description
1	TEC (+)	6	Laser anode (+)
2	Thermistor	7	Laser cathode (-)
3	Monitor anode (-)	8	NC
4	Monitor cathode (+)	9	Package ground
5	Thermistor	10	TEC (-)



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