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Laser Diode Part Number: 1030LD-2-0-0

contact@laserlabsource.com | 800-887-5065

1030 nm laser diode - DFB

>200 mW / singlemode fiber / 10 pin Butterfly package*

Reference: 1030LD-2-0-0

Technology : DFB**

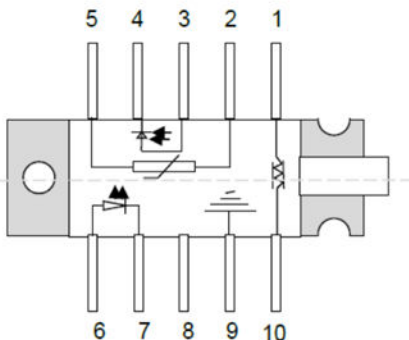
SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (CW mode)	mW	200	220	
Output Power (Pulse mode)	mW	500	800	
Center Wavelength	nm	1028	1030	1032
Spectral Width (FWHM)	kHz		200	
Threshold Current	mA		40	70
Operating Current	mA		350	400
Operation Voltage	V		2.0	2.5
Wavelength shift w Temperature	nm/°C		0.06	
Wavelength shift w Current	nm/mA		0.0025	
Polarization Extinction Ratio	dB	13		
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
Fiber termination	Bare fiber (optional FC/APC connector)			
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 on [fiber coupled laser diode](#)

Form factor:

Laser diode pinning :



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 (-)