

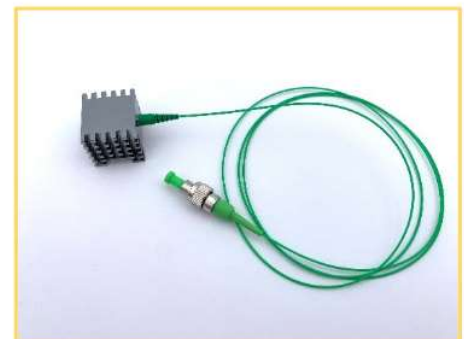
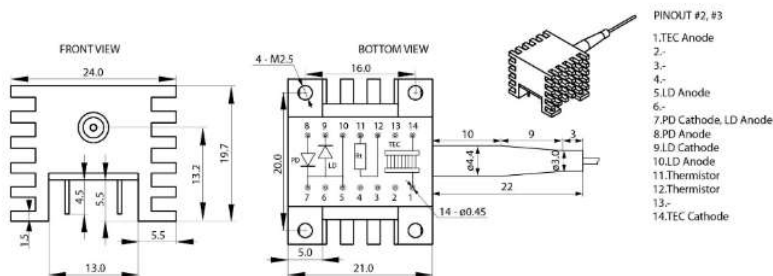
## 520 nm laser diode

20 mW / singlemode fiber / "hedgehog" package with TEC  
(compatible with Butterfly laser diode drivers)

Reference: 520LD-1-0-0-(1=SMF/2=PM)

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	mW	20		
Center Wavelength	nm	515	520	530
Spectral Width (FWHM)	nm		1	3
Threshold Current	mA		65	80
Operating Current (*absolute maximum rating)	mA		150	180 (190)*
Operating Voltage	V		6.5	7.5
Wavelength shift w Temperature	nm/°C		0.2	
Wavelength shift w Current	nm/A		2	
Internal photodiode responsivity	mA/W	5	25	50
TEC current (25°/case@70°)	A		1.1	1.4
TEC voltage (25°/case@70°)	V		2.0	3.9
Internal thermistor (25°) <i>R<sub>t</sub> = 10 * EXP(3600 * {1/T(K) - 1/298}) kΩ</i>	kΩ	9.5	10	10.5
Fiber type (OPTION 1 : PM fiber)	S405-XP or equivalent (PM460-XP or equivalent)			
Fiber bend radius (long term)	mm	13		
Typical Fiber length / coating	1.0 m / 900 μm			
Fiber connector	Yes (FC/APC)			
Storage temperature	°C	-40		+60
Operating case temperature	°C	-40		+60
PER (if PM OPTION 1)	dB		18-22	
Laser diode reverse voltage (absolute maximum rating)	V			2

Form factor & Laser diode pinning :



14 pin DIL supplied with a butterfly laser diode driver adaptation kit.

