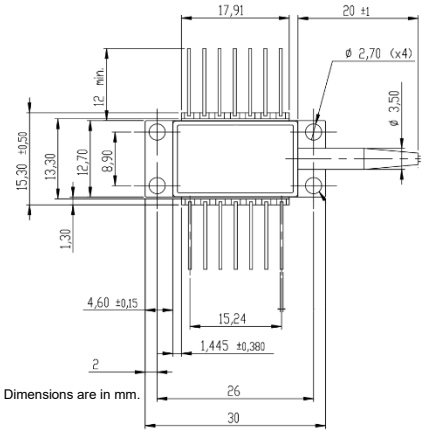
785 nm laser diode

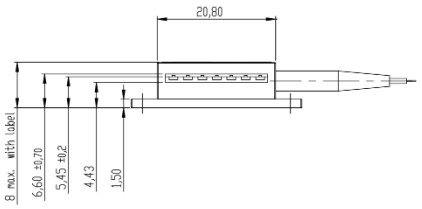
Model 1b: 150 mW / singlemode fiber / butterfly package

Reference: 785LD-1b-SM/PM-NI

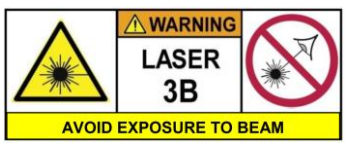
SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	mW	150		
Center Wavelength (OPTION 2: FBG Version)	nm	780	785	790
Spectral Width (FWHM) / (OPTION 2: FBG Version)	nm		1 (0.2)	
Threshold Current	mA		60	100
Operating Current	mA		300	450
Operating Voltage	V		1.7	2.0
Wavelength shift w Temperature (OPTION 2: FBG Version)	nm/°C		0.25 (~0)	
Wavelength shift w Current (OPTION 2: FBG Version)	nm/A		3 (~0)	
Side mode suppression ratio (OPTION 2: FBG Version)	dB		(30)	
Internal photodiode responsivity	mA/W	0.04	3	10
Internal photodiode dark current	nA		5	40
TEC current (abs max rating)	A		1.1	
TEC voltage (abs max rating)	V		1.9	
Internal thermistor (25°)	kOhm	9.5	10	10.5
Fiber type (OPTION 1: PM fiber)	Hi780 or equivalent (PM780 or equivalent)			
PER	dB		18	
Fiber bend radius	mm	25		
Fiber connector	Yes (FC/APC)			
Storage temperature	°C	-40		85
Operating case temperature	°C	-20		70
Operating chip temperature	°C	20		40
Laser diode reverse voltage (absolute maximum rating)	V			2
Internal isolator	No			

Form factor & laser diode pin configuration (standard 14-pin Butterfly Type-1) :





PIN	FUNCTION	PIN	FUNCTION
1	TEC (+)	8	NC
2	Thermistor	9	NC
3	Monitor PD Anode	10	LD Anode (+)
4	Monitor PD Cathode	11	LD Cathode (-)
5	Thermistor	12	NC
6	NC	13	Ground
7	NC	14	TEC (-)



Laser diodes are classified based on continuous operation - Contact us for any special requests regarding classification or power limitation.

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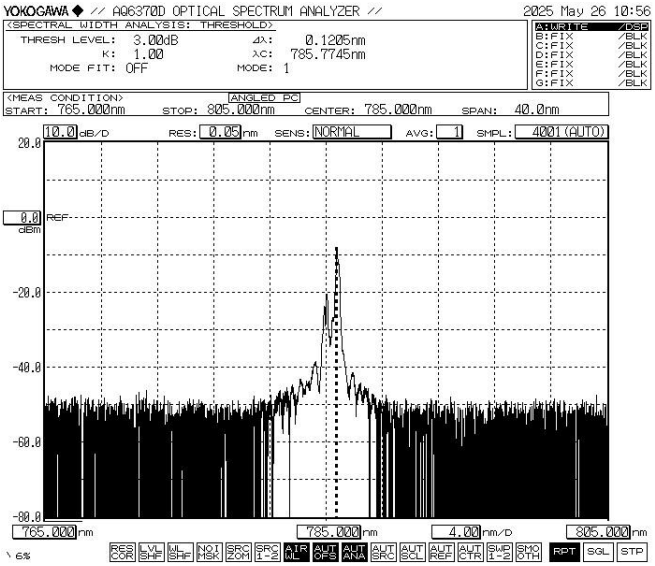
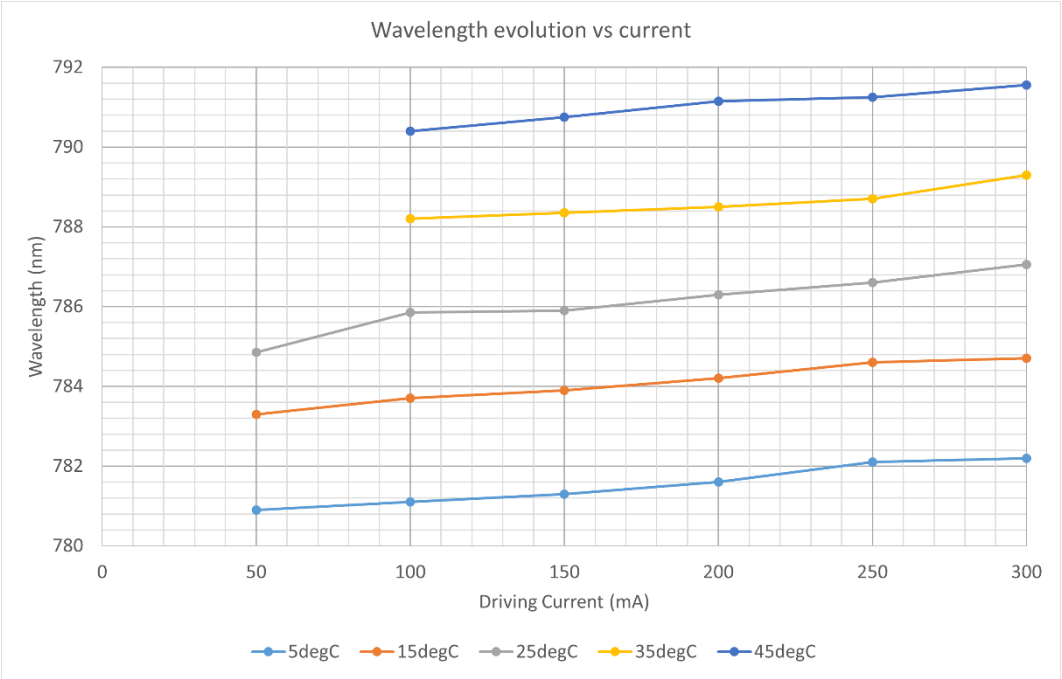
Emission spectrum & Wavelength evolution versus current





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