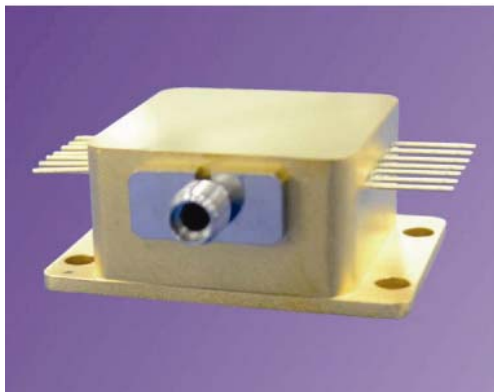


LDM-808-7-PTFS



Characteristics
Output Power 7W
Wavelength: 808nm, 650nm
Fiber Coupling 200μm
Fiber Core Dia. 0.22NA
Fiber detector
Application
Medical use
Material processing

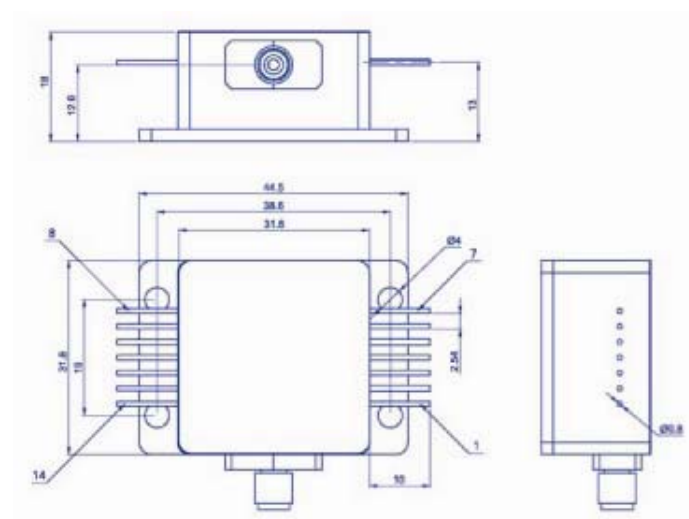
Parameter		Symbol	Typical	Unit
Optical	CW Out Power	P_{op}	7	W
	Center Wavelength	λ	808 ±3, 808 ±10	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<3.0	nm
	Wavelength Shift width Temperature	$\Delta\lambda/\Delta T$	0.3	nm / °C
Pilot beam	Output Power	P_a	>2	mW
	Wavelength	λ_a	650 ±10	Nm
	Voltage	V_a	2.2, 5.0	V
	Current	I_a	<30	mA
Electrical	Threshold Current	I_{th}	1.6	A
	Operating current	I_{op}	9	A
	Operating Voltage	V_{op}	1.9	V
	Slop Efficiency	η_{es}	0.8-0.9	W / A
Fiber	Fiber Core Diameter	d_{core}	200, 400	μm
	Thermistor	R_t	10 ±5%/3477	(K Ω) / β (25°C)
	Numerical Aperture	NA	0.22	-
	Connector	-	ST, FC, SMA905	-

Other Parameters

Parameter	Operating Temperature/°C	Storage Temperature/°C	Storage Relative Humidity/%	Lead Soldering Temperature, 10s max/°C	MTBF/h
Min	10	-20	-	-	10000
Max	30	80	90	250	-

Package Dimensions (mm)

Pins and Functions			
Pin	Function	Pin	Function
1	Case	8	TEC (-)
2	Laser (+)	9	Fiber Detection PDP
3	Thermistor	10	Fiber Detection LED (-)
4	Thermistor	11	Fiber Detection LED (+)
5	Laser (-)	12	Aiming Beam LD (+)
6	PD (P)	13	Aiming Beam LD (-)
7	PD (N)	14	TEC (+)



808nm Characteristics (25°C)

