

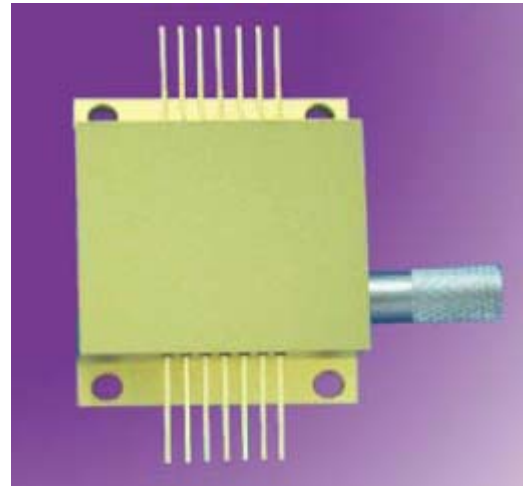
Fiber-coupled Laser Diode STC-LDM-808-50-T6

Characteristics

Output Power: 50W
 Wavelength: 808nm
 Fiber Core Diameter: 400µm
 Numerical Aperture: 0.22

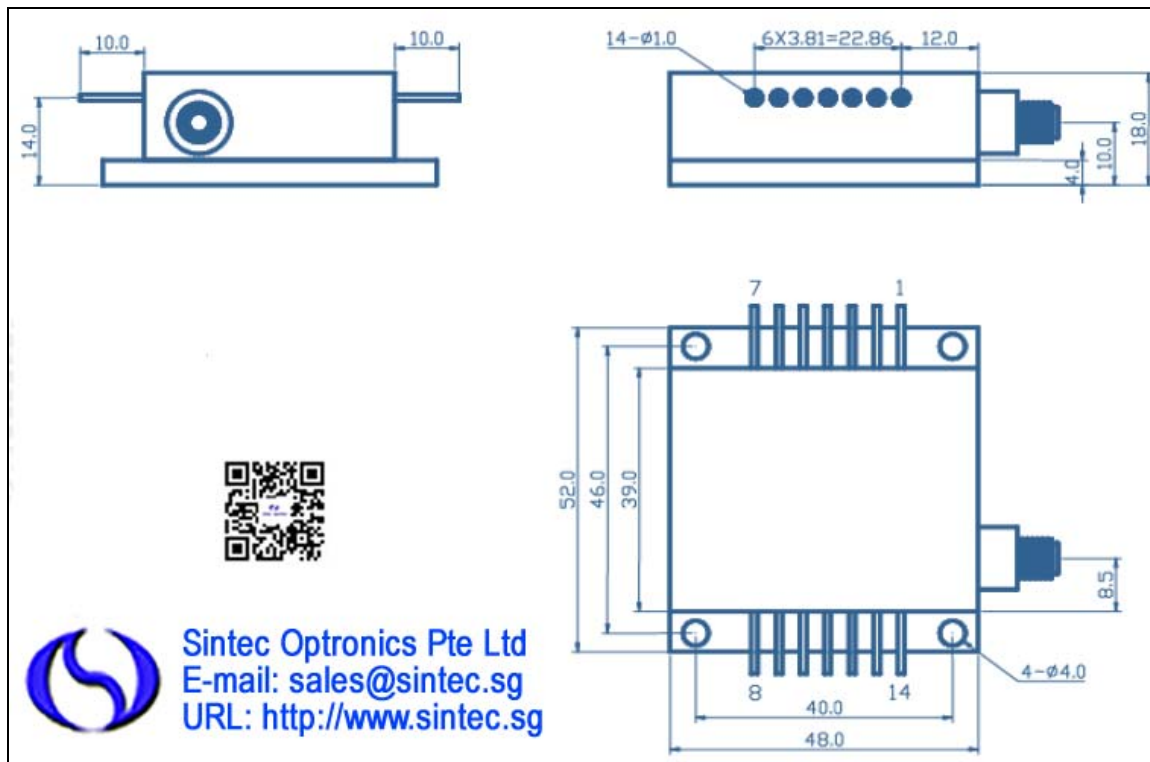
Applications

Laser Scalpel
 Medical Applications
 Dental Treatment



	Parameter	Symbol	Typical	Unit
Optical	CW Out Power	Pop	30	W
	Center Wavelength		808±3	nm
	Spectral Width (90% of Power)	Δ	<3	nm
	Wavelength Shift with Temperature	Δ / ΔT	0.3	nm / °C
Electrical	Threshold Current	I _{th}	1.8	A
	Operating current	I _{op}	10.0	A
	Operating Voltage	V _{op}	10.8	V
	Slope Efficiency	η	6.0	W/A
	Power Conversion Efficiency	η _{ep}	45	%
Fiber	Core Diameter	d _{core}	400	µm
	Numerical Aperture	NA	0.22	-
	Fiber Length	L	1.0	m
	Connector	-	SMA905	-

Parameter	Operating Temperature/°C	Operating Relative Humidity/%	Storage Temperature/°C	Storage Relative Humidity/%	Lead Soldering Temperature, 10s max/°C
Min	10	-	-20	-	-
Max	40	75	80	90	250



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Pins and Functions			
Pin	Function	Pin	Function
1	LD(+)	8	Aiming Beam LD(+)
2	PD(N)	9	Aiming Beam LD(-)
3	PD(P)	10	-
4	Thermistor	11	-
5	Thermistor	12	-
6	-	13	Connector Detector(-), Case*
7	LD(-)	14	Connector Detector(+)