

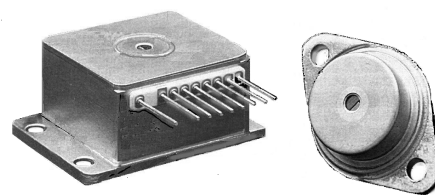
1.24 ÷ 1.28
μm

CW output power
800 mW

RLT1260-800-HHL

Description:

- is the series of high-power multimode laser diode with emission wavelength in spectral range of 1.24÷1.28 μm and CW output power of 800 mW produced on the base of InGaAsP/InP index-guided heterostructures. The laser diode is performed in standard HHL package with built-in monitor photodiode, thermistor, thermocooler and have wide operating temperature range, high output power stability and more than 10⁴ hours of lifetime.
- is the best light source for medical applications, for driving of technology procedures, scientific and research works, etc.



Absolute maximum ratings:

Laser diode

CW output power (mW)	900
Operating current (mA)	3.3

Monitor photodiode

Reverse voltage (V)	6.0
PD current (mA)	1.0

Thermistor

Operating current (mA)	0.1
Voltage drop (V)	10

Thermocooler

Forward current (mA)	2.3
Forward voltage (V)	10.4

Environment

Operating temperature range (°C)	-20..+40
Storage temperature range (°C)	-40..+70

Assembly

Pin soldering temperature (°C)	200
Pin soldering time (sec)	3.0

Optical and electrical characteristics (T=25°C):

Characteristics	Symbol	Min	Typ	Max	Units
Laser diode					
CW output power	P _{OUT}		800		mW
Emitting area	W x H		100 x 1		μm
Wavelength	λ	1240	1260	1280	nm
Threshold current	I _{TH}			700	mA
Operating current	I _F			2.8	A
Operating voltage	U _F			2.0	V
Beam divergence	Θ x Θ _⊥		10 x 50		deg
Spectral width (FWHM)	Δλ		5	7	nm
Mode structure			MM		
Monitor photodiode					
Monitor PD current	I _{PD}		>20		μA
Sensitivity	S		>0.2		μA/mW
Reverse voltage	U _{PD}		5.0 ± 0.5		V
Thermocooler					
Operating current	I _{OP}			1.5	A
Operating voltage	U _{OP}		6	7	V
Thermistor					
Resistance	R		20		kΩ

Pin	Function
1	"-" thermocooler
2	case
3	LD anode (+)
4	thermistor
5	thermistor
6	LD cathode (-)
7	PD anode
8	PD cathode
9	"+" thermocooler

