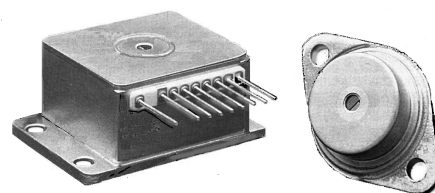


**1.24 ÷ 1.28
μm****CW output power
800 mW****RLT1260-800-HHL****Description:**

- 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		Thermocooler	
CW output power (mW)	900	Forward current (mA)	2.3
Operating current (mA)	3.3	Forward voltage (V)	10.4
Monitor photodiode		Environment	
Reverse voltage (V)	6.0	Operating temperature range (°C)	-20..+40
PD current (mA)	1.0	Storage temperature range (°C)	-40..+70
Thermistor		Assembly	
Operating current (mA)	0.1	Pin soldering temperature (°C)	200
Voltage drop (V)	10	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

