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, termocooler and have wide operating temperature range, high output power stability and more than 10^4 hours of lifetime.



- is the best light source for medical applications, for driving of technology procedures, scientific and research works, etc.

Absolute maximum ratings:

900
3.3
6.0
1.0
0.1
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	Тур	Max	Units
Laser diode					
CW output power	P_{OUT}		800		mW
Emitting area	WxH		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	$\Theta_{\text{II}} \times \Theta_{\perp}$		10 x 50		deg
Spectral width (FWHM)	Δλ		5	7	nm
Mode structure			MM		
Monitor photodiode					
Monitor PD current	I_{PD}		>20		μΑ
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		

