

PDL915-240-135 High Power Diode Laser

PN: DL915240135

PRODUCT FEATURES

- ► Multiple single emitter based diode laser, high reliability
- ▶ 1040-1200nm feedback protection

MAIN APPLICATION

- ► Fiber laser pumping
- ► Direct applications



TECHNICAL INDEX

Performance			Index		
			Min.	Тур.	Max.
Optical Parameters ¹	Output Power	(W)	240		
	Center Wavelength ²	(nm)	900	915	930
	95% Power Within NA	(NA)		0.17	
	Back Reflection Isolation Range	(nm)	1040	1064	1200
	Back Reflection Isolation	(dB)	30		
Fiber Parameters	Fiber Core Diameter	(µm)	133.5	135.0	136.5
	Fiber Clad Diameter	(µm)	154	155	156
	Numerical Aperture	(NA)	0.215	0.220	0.225
	Fiber Length ²	(m)	1.5	2.0	
	Loose Tubing Diameter	(mm)	1.1	1.4	
	Loose Tubing length	(m)	1.2	1.5	
	Fiber Connector		Bare Fiber/SC Ceramic Ferrule		
	Fiber Bend Radius	(mm)	35		

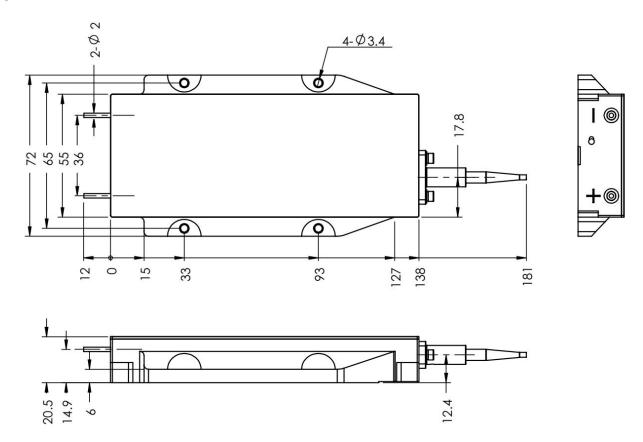


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Electrical Parameters ³	Conversion Efficiency	(%)		48	
	Threshold Current	(A)		1.1	
	Operating Current ³	(A)		25.0	26.0
	Operating Voltage ³	(V)			21.5
Thermal Parameters ³	Operating Temperature ⁴	(°C)	5		45
	Storage Temperature	(°C)	-30		85
	Wavelength Temperature Coefficient	(nm/°C)		0.35	
	Lead Soldering Temperature	(°C)		260	300
	Lead Soldering Time	(s)			10

- 1. Tested at 25°C cold plate temperature.
- 2. Others available upon request.
- 3. Reduced lifetime if used above nominal operating conditions.
- 4. Laser Wavelength would shift when package operating temperature is changed

SIZE





APPLICATION NOTES:

- 1. The laser beam emitted from the diode laser is invisible, please follow the standard safety procedures for IEC Class 4 lasers, avoid eye or skin exposure to direct or scattered radiation;
- 2. ESD is the primary cause of unexpected diode laser failure. The diode laser should be handled by trained operators wearing ESD grounding straps and the work surface should be grounded. Connectors should be attached to the pump pins prior to removing the ESD shortcut protection component;
- 3. Ensure the end of the fiber be free of dust and contamination before operation.
- 4. The laser should be operated according to the specifications, maximum optical power should not be exceeded;
- 5. The laser may be damaged by excessive drive current, stable power supply should be used to avoid surge current;
- 6. To ensure long-term reliability of the laser, a 20 30°C cold plate is needed to make the laser work within proper temperature range.

MODEL EXPLANATION

