



LDM3S50 Pigtailed Coaxial Laser

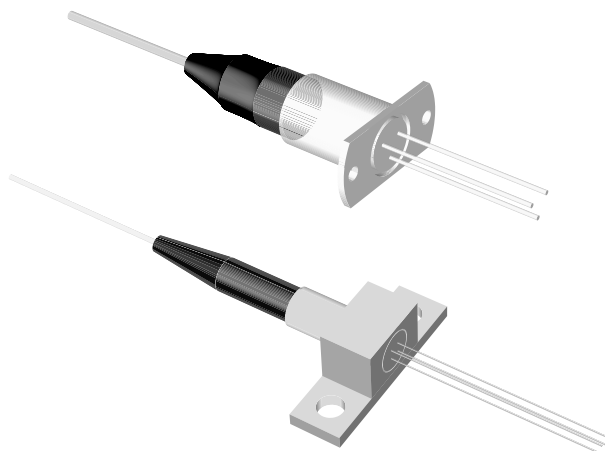
Nanovation's LDM3S50 1310nm uncooled laser product features high reliability over a wide operating wavelength range. This laser diode module is targeted toward telecom access, junction and trunk applications.

Features

- Operating wavelength: 1310nm
- High-reliability MQW laser chip
- Cylindrical-pigtailed package, single mode FC connector

Applications

- Telecom access and local loop



Specifications (T=25°C)

LDM 3S50	501	502	503	504
Rated output power (μW)	100	200	500	1000
Wavelength (nm)	1280~1340			
Spectral width (nm,RMS)	<5			
Threshold current (mA)	<25			
Threshold current at 65°C (mA)	<40			
Modulation current (mA)	10~40			
Forward voltage at rated power (V)	<1.6			
Series resistance (Ω)	<10			
Optical rise/fall time (ns)	<0.5			
Analog bandwidth (MHz, -3dB response)	≥800			
Spectral shift (nm/°C)	<0.5			
Monitor current at rated power (μA)	>50		>80	
Monitor dark current (nA/-5V)	<10			
Track error (dB, relative to 25°C)	-2 ~ +2			
Operating temperature (°C)	-20 ~ +65			
Storage temperature (°C)	-40~ +70			



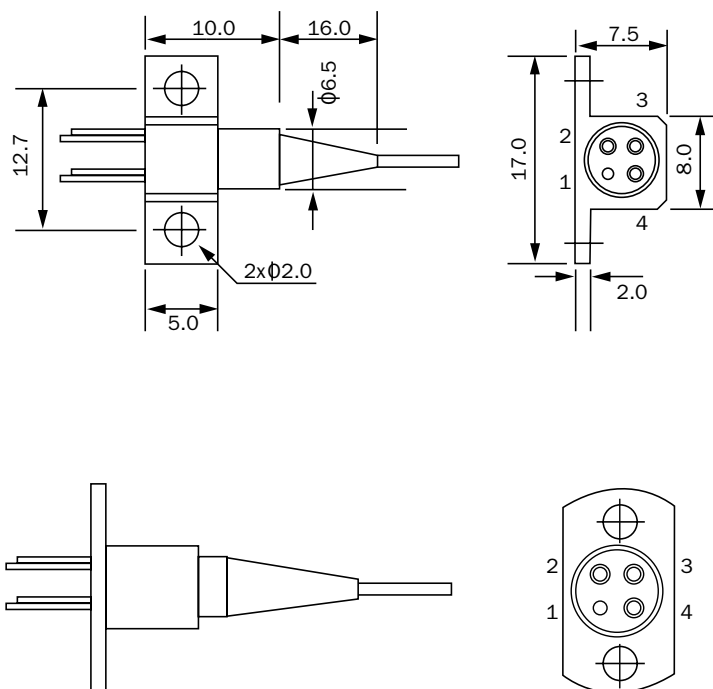
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Absolute Maximum Ratings

Laser Element (T=25°C)	
Forward current (mA)	100
Reverse current (mA)	2
Reverse voltage (V)	2
Monitor Detector (T=25°C)	
Reverse voltage (V)	-15
Reverse photocurrent (mA)	1
Forward current (mA)	2
Package	
Operating temperature (°C)	0 to +70
Storage temperature (°C)	-40 to +85
Lead soldering temperature (°C)	260
Lead soldering duration (s)	10
Fiber yield strength (kgf)	1
Fiber bend radius (mm)	30

Mechanical Packaging Diagram (mm)

(All dimensions are in mm; drawings are not to scale.)





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Pin Information

Pin	Description	Pin	Description
1	Laser Anode (+)	3	Monitor Anode (-)
2	Laser Cathode (-)	4	Monitor Cathode (+)

Ordering Information

LDM3S50 X X

Package	
V:	Vertical
H:	Horizontal
Output Power	
1:	100 μ W
2:	200 μ W
3:	300 μ W
4:	400 μ W

To order or for additional information, please contact us at:

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