



LDM3S45/LDM3S55 1310nm LD

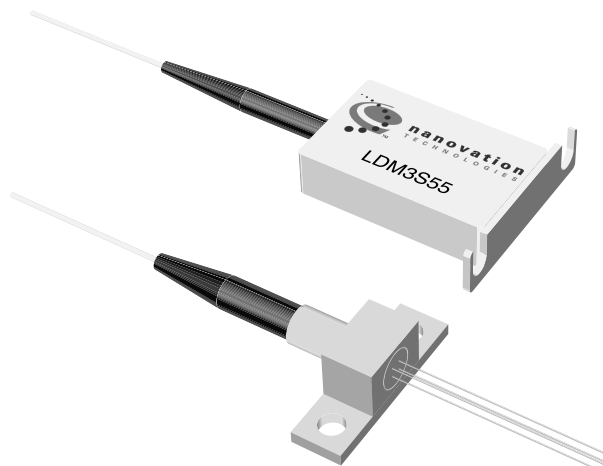
Nanovation's LDM3S45/LDM3S55 1310nm laser diode products employ a wide operating wavelength, excellent temperature performance and high reliability. These products are targeted toward optical fiber communication systems, sensors, testing apparatus and instrument applications.

Features

- Highly reliable MQW LD chip
- Operating wavelength 1310nm
- Excellent temperature performance, the output power change from 25 to 60°C is less than 2dB
- Uncooled 14-PIN DIP package or coaxial pigtailed
- Single mode FC connector
- Can operate as LED without bias current
- LD and LED application selectable

Applications

- Optical fiber communication systems
- Sensors
- Testing apparatus and instruments



Specifications (T=25°C)

LDM3S45	1	2	3	4	5
LDM5S45					
LDM3S55	6	7	8	9	
LDM3S55					
Output Power (μ W)	25	50	100	200	400
Wavelength (nm)	1280 to 1330				
Spectral width (nm, FWHM)	<4				
Operating current (mA)	<20				
Threshold current (mA)	65				
Forward LD voltage (V)	<1.5				
Threshold shift (mA/°C)	0.2 to 0.25				
Series resistance (Ω)	<10				
Data rate (Mbps)	<280				
Temperature feature					
P _{25°C} /P _{65°C} (dB)	<2				



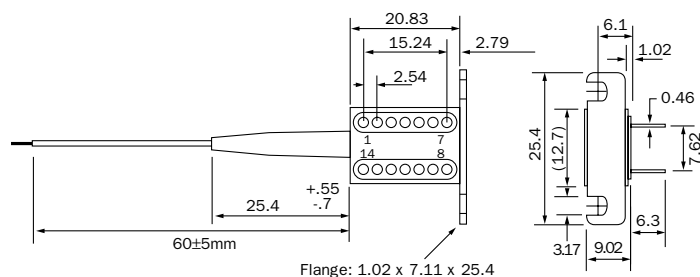
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Absolute Maximum Ratings

Laser Element (T=25°C)	
Forward current (mA)	100
Reverse current (mA)	2
Reverse voltage (V)	2
Package	
Operating temperature (°C)	-20 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.)



Pin Information (DIP14)

Pin	Description	Pin	Description
1	NC	8	NC
2	NC	9	LD (-)
3	NC	10	LD (+), GND
4	NC	11	NC
5	NC	12	NC
6	NC	13	NC
7	NC	14	NC

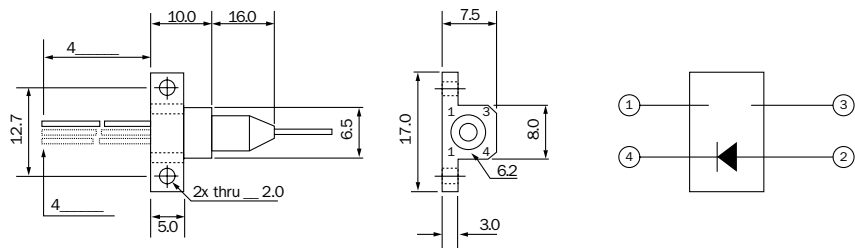
*Other Pins: NC



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Mechanical Packaging Diagram (mm)

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



Pin Information (Coaxial)

Pin	Description	Pin	Description
2	LD (+)	1	Case
4	LD (-)	3	NC

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

Phone: 1-877-919-6266

Fax: 1-734-354-0934

Web: www.nanovation.com

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