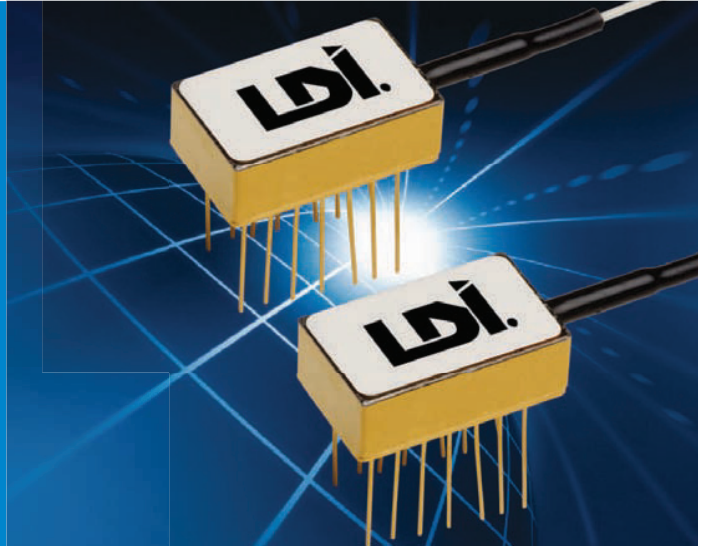


1300nm Edge-Emitting LED

ISO 9001:2008 Certified

- Excellent Thermal Stability
- Singlemode and Multimode Pigtail
- Hermetic 14-PIN DIL Packages
- Thermoelectric Cooler Option
- Military Screening Available
- High Reliability Coupling
- Applications Include:
 - Data Transmission Systems
 - Fiber Optic Modems
 - TFOCA Systems



OSI Laser Diode, Inc.'s 1300nm edge-emitting LEDs (Light Emitting Diode) feature stable power and spectral characteristics over temperature. These LEDs are typically used in data or analog transmission systems where the launch power requirements are too great for an SLED component and where a laser is not suitable.

Specifications and Limits @25°C

Electro-Optical Characteristics

PARAMETERS	Units	Min	Typ	Max
Center wavelength	nm	1265	1300	1330
Spectral width	nm		80	
Spectrum vs. temperature coefficient	nm/°C		0.75	
Spectral width vs. temperature coefficient	nm/°C		0.3	
Optical rise/fall time	ns		4.0	
Forward current	mA			150
Output power				
Into 50-micron core, multimode fiber at 150 mA				
Option 1	uW	40		
Option 2	uW	80		
Into 9-micron core, singlemode fiber at 150 mA				
Option 1	uW	4		
Option 2	uW	8		
Average power decrease with increase in temperature *	%/°C		-1.5	
Average power increase with decrease in temperature *	%/°C		5.0	

*Uncooled versions *only*; cooled versions available upon request

Absolute Maximum Ratings				
	Units	Min.	Typ.	Max.
Forward Current	mA	-	-	200
Forward Voltage	V	-	-	2
Soldering time at 260 °C	sec	-	-	10

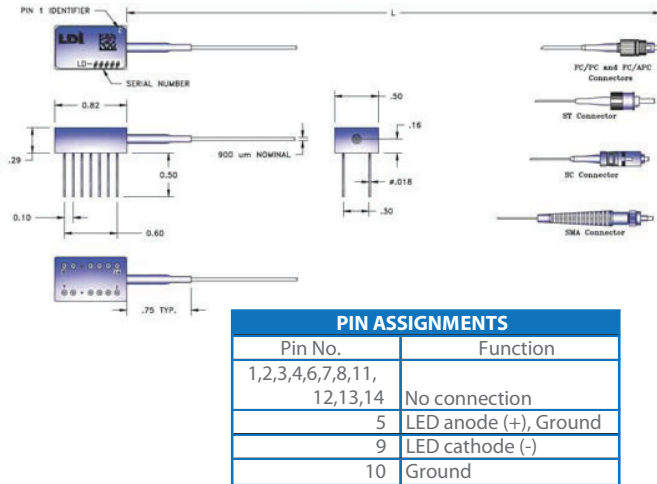
Note: 1. No Flange (NF) 2. Long Horn (LH)

Packaged Diode Characteristics					
	LDT	362	362NF	60005	60005NF
Package Style ^{1,2}	LH		NF	LH	NF
Pigtail	50/125		50/125	9/125	9/125
Operating Temperature				-40 to +85	
Storage Temperature				-40 to +85	

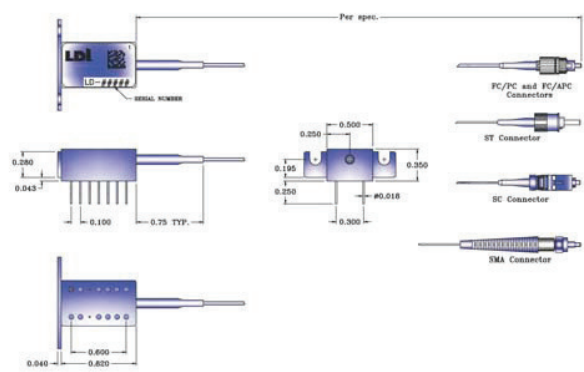
Fibers have a 900um tight buffer jacket. Other fiber pigtailed available upon request.

Outline Drawing

No Flange (NF) Package



Standard Long Horn (LH) Package



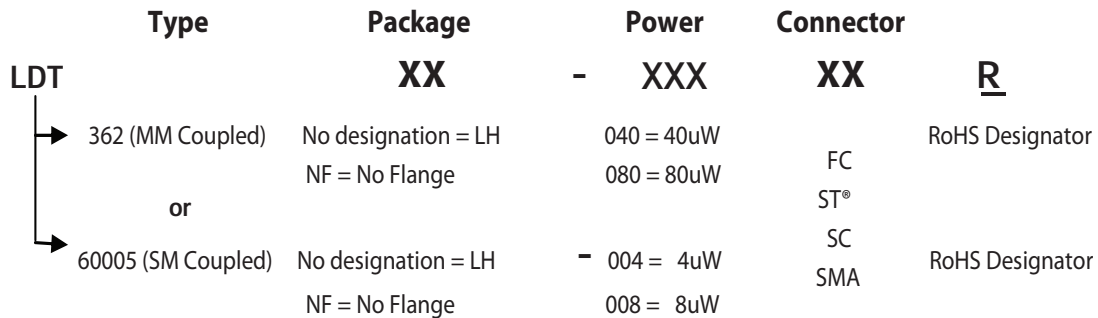
Dimensions: Inches [mm]

Detailed package drawings are available upon request.

Standard fiber lengths: 1m min. unconnectorized; 1m +/- 0.1m connectorized

Part Ordering Information

When ordering, refer to the numbering diagram below.



EXAMPLE: LDT 60005NF-004R
LED, 1300nm, 4uW, 14 pin-DIP, NO FLANGE
9/125/900 um pigtail, RoHS Compliant

Products can be ordered directly from OSI Laser Diode, Inc. or its representatives.

For a complete listing of representatives, visit our website at

www.laserdiode.com

Personal Hazard and Handling Precautions:

Handle optical fiber with normal care, avoiding stretch, tension, twist, kink or bend abuse. ESD precautions apply.

Warranty:

Please refer to your product purchase agreement for complete details or check with your OSI Laser Diode sales representative.

Notice:

OSI Laser Diode, Inc. reserves the right to make changes to the products or information contained herein without notice.

No liability is assumed as a result of their use or application.