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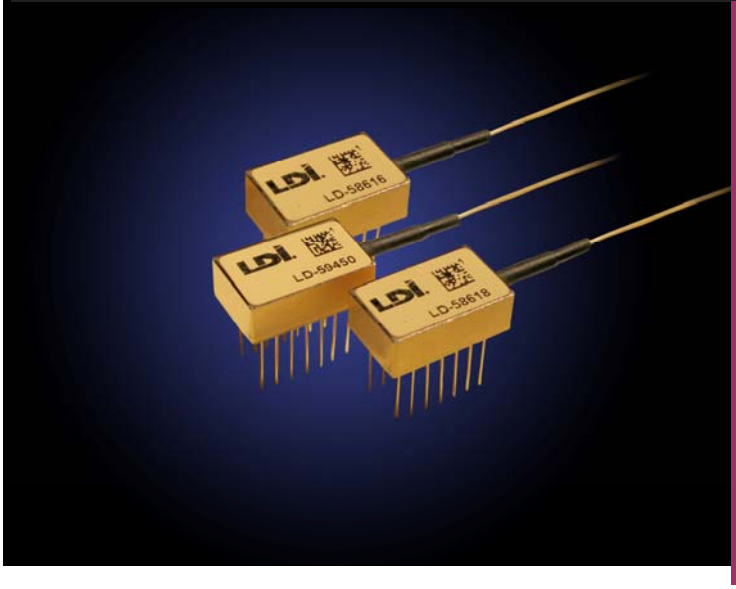
Laser Diode Incorporated
ISO 9001:2000 Certified

1300nm Edge-Emitting LED



- 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

Laser Diode Incorporated'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

PARAMETER	Unit	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	uW			
Into 50-micron core, multimode fiber at 150mA				
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

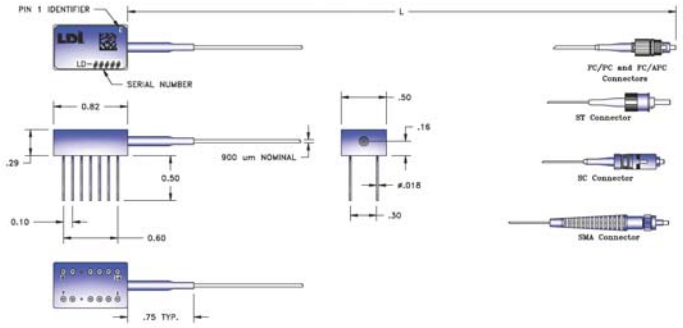
Packaged Diode Characteristics

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			

Note: 1. No Flange (NF) 2. Long Horn (LH) Fibers have a 900um tight buffer jacket. Other fiber pigtails available upon request.

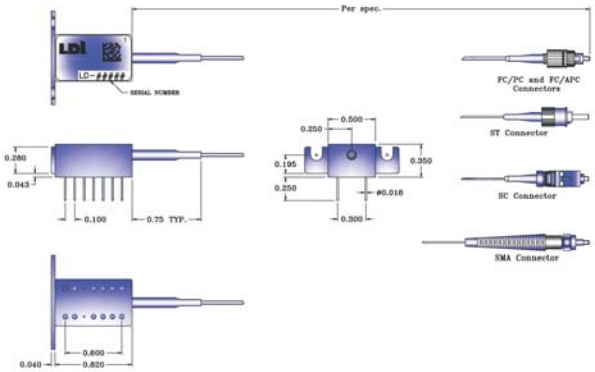
Outline Drawings

No Flange (NF) Package



PIN ASSIGNMENTS	
Pin No.	Function
1,2,3,4,6,7,8,11, 12,13,14	No connection
5	LED anode (+), Ground
9	LED cathode (-)
10	Ground

Standard Long Horn (LH) Package



Dimensions: Inches [mm]
Detailed package drawings available upon request

Part Ordering Information

Products can be ordered directly from Laser Diode Inc. or its representatives. For a complete listing of representatives, visit our website at www.laserdiode.com. When ordering, refer to the numbering sequence below.

Type	Package		Power	Connector	
LDT	**XX**	-	XXX	**XX**	**R**
362 (MM Coupled)	No designation = LH		040 = 40uW	FC	RoHS Designator
	NF = No Flange		080 = 80uW	ST®	
or				SC	
60005 (SM Coupled)	No designation = LH	-	004 = 4uW	SMA	RoHS Designator
	NF = No Flange		008 = 8uW		

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

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 Laser Diode sales representative.

Notice:
Laser Diode Incorporated 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.