

Features and Benefits

- Standard Surface-Emitting LEDs (SLEDs) in ready-to-use, fiber-coupled packages, including FC, ST, SC and other receptacles, as well as fiber-pigtailed units.
- Most SLEDs are coupled into multimode fibers; SLEDs that couple into single mode fiber are also available.
- Non-standard, front-emitting SLEDs can be packaged to a customer's specifications using standard or custom receptacle or pigtailling techniques.
- Available detectors include Silicon PINs and APDS, GaAs PINs, InGaAs PINs and APDS, and Germanium PINs and APDs for use with all emitters US-LEDs and Lasers.

Applications

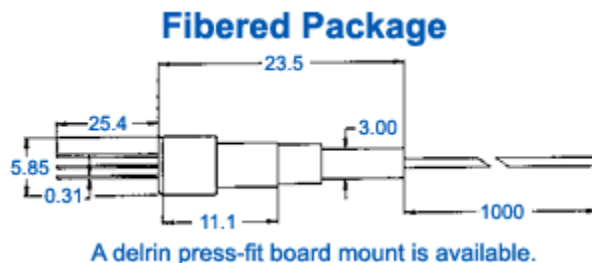
- Fiber optic communications
- Optical sensors
- Production
- Research
- Military

PLD SXX Series Surface-Emitting LEDs (SLEDs)



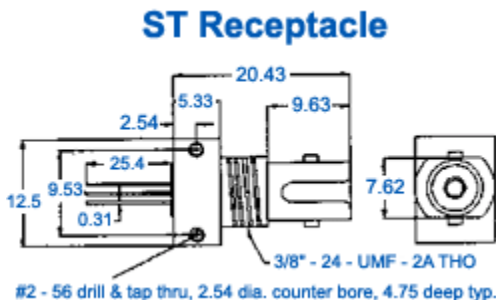
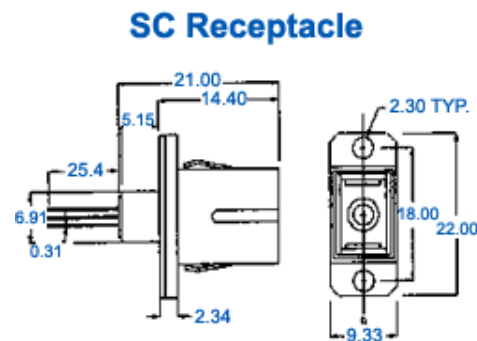
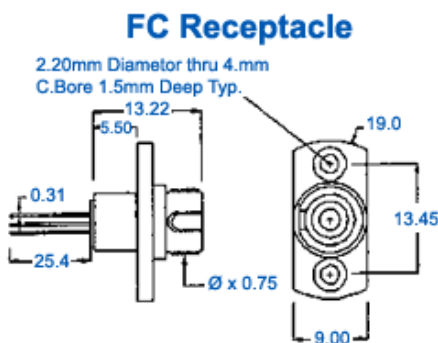
DIMENSIONS

These SLEDs use a proprietary microwelded subassembly to provide optoelectronic devices in active mount receptacles (SC, ST, FC, SMA, DIN, etc.) or with a pigtail. This technique can be used with a variety of TO-package types including those with flat window or lensed caps.



Each TO-packaged device is aligned, then welded within a universal alignment sleeve. This assembly is then placed into an active-mount receptacle or fiber mounted.

Devices can be pigtailed with angle or radial polished singlemode fiber pigtails for reduced back reflection. These are particularly suited for InGaAs PIN photodiodes utilized in CATV applications.



SPECIFICATIONS

PD-LD Part No.	Wavelength (nm)			Operating Current (mA)		Fiber-Coupled Power (μW)		Fiber Type Core/Cladding (mm)	Spectral Width FWHM (nm)	Bandwidth - 3dB (MHz)
	Min	Typ	Max	lop	Max	Min	Typ			
GaAlAs SLED (@ lop, 25°C)										
PLD-S08-191-080-PH2	840	850	860	100	110	80	130	50/125 MMF	50	35
PLD-S08-194-020-PH2	840	860	880	60	80	20	45	50/125 MMF	50	70
PLD-S08-225-002-PH1	860	880	900	50	60	2	2.5	9/125 SMF	50	50
InGaAs SLED (@ lop, 25°C)										
PLD-S13-302030-SC3	1280	1320	1350	80	110	30	50	62.5/125 MMF	120	100
PLD-S13-962-010-ST2	1290	1320	1350	100	150	10	25	50/125 MMF	170	115
PD-LD Part No.	Active Diameter (mm)			Responsivity (A/W)		Capacitance (pF)		Reponse Range (nm)	Dark Current (nA)	Bandwidth - 3dB (MHz)
Silicon PIN (@-10V), GaAs & InGaAs (@-5V) Detector Characteristics (25°C)										
PLD-DSi-500-R20-FC2	500			0.45		2.5		400-1000	0.05	1500
PLD-DIn-075-PD7-ST2	75			0.8		1.0		800-1700	0.5	1500
PLD-DGa-080-354-SC2	80			0.45		1.0		600-900	0.4	1000
Specifications above are examples only; most device/packaging combinations available.										

ORDERING INFORMATION

Part Number System

PLD - XXX - XXX -

L = Laser
D = Detector
E = ELED
S = SLED

XX = Wavelength

08 = 780 - 880 nm
13 = 1300 nm
15 = 1500 nm
63 = 635 nm
65 = 650 nm
67 = 670 nm
78 = 780 nm
81 = 810 nm
98 = 980 nm

BBB = Device Specification
Specific to and assigned
by PD-LD, Inc.

AAA = Active Area

055 = 55 μ m
075 = 75 μ m
100 = 100 μ m

BBB = Device
Identification

PPP = Fiber Coupled
Power

005 = 0.005 mW (5 μ W)
010 = 0.010 mW (10 μ W)
015 = 0.015 mW (15 μ W)
020 = 0.020 mW (20 μ W)
050 = 0.050 mW (50 μ W)
100 = 0.100 mW (100 μ W)
0.1 = 0.100 mW (100 μ W)
0.2 = 0.200 mW (200 μ W)
0.5 = 0.500 mW (500 μ W)
0.8 = 0.800 mW (800 μ W)

001 = 1.0 mW
002 = 2.0 mW
005 = 5.0 mW
020 = 20 mW
1.0 = 1 mW

*XXX

- RRF - MCC

RR = Receptacle or Pigtail

FC = FC Receptacle

ST = ST Receptacle

SC = SC Receptacle

DN = DIN Receptacle

QH = Pigtail, 900 μ m w/
panel mountPT = Pigtail, 250 μ m tight
bufferPC = Pigtail, 500 μ m tight
bufferPH = Pigtail, 900 μ m
hytel bufferPK = Pigtail, 3 mm cable
PVC (std)QK = Pigtail, 3 mm w/
panel mt (std)

F = Fiber Type

1 = 9/125 SMF

2 = 50/125 MMF

3 = 62.5/125 MMF

4 = 100/140 MMF

5 = 9/125 SMF LBR

6 = Short λ SMF (3-6/125)

9 = Customer Supplied

M = Length in meters
(1,2,3,5, etc.)
(pigtailed devices
only)

CC = Connector Type

ST = ST

TA = ST/APC

SC = SC

SA = SC/APC

FC = FC

FA = FC/APC

FU = FC/UPC

D4 = D4

OO = No Connector

BC = Biconic

*This specification number
does not apply to all parts. For
example, it does not appear in
part numbers for PLD SXX-
Series Surface Emitting LEDs or
PLD DXX-PX5 Low Back Reflec-
tion Detectors

FOR ADDITIONAL INFORMATION ON THIS OR OTHER PRODUCTS AND THEIR AVAILABILITY, PLEASE CONTACT FIBER OPTIC CENTER, INC.