

Features and Benefits

- Standard or custom detectors in ready-to-use, fiber-coupled packages employing standard receptacles, such as FC, SC, ST and others, as well as fiber pigtailed units.
- Non-standard detectors or parts can be packaged to a customer's specifications using standard or custom receptacle or pigtail techniques.
- Silicon PINs and APDs for applications from 400-1100nm.
- GaAs PINs for applications from 600-900nm.
- InGaAs PINs and APDs have highest responsivity between 800-1500nm.

Applications

- Optical communications - voice, video and data
- Fiber optic sensors
- Optical test instruments

PLD DXX & DXX-PX5 Series Low Back Reflection Detectors



SPECIFICATIONS

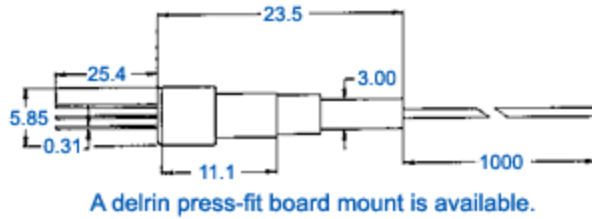
Part No.	Active Diameter	Responsivity (A/W)		Capacitance (pF)		Dark Current (nA)		Bandwidth - 3db Typical (GHz)
		Min	Typ	Min	Typ	Min	Typ	
InGaAs (@ 5V bias, 1300 nm, 25°C								
PLD-Din-055-P-D5-PH1-100	55	0.65	0.8	0.55	0.75	0.5	1.0	2
PLD-Din-075-T-L7-PH5-1FA	75	0.65	0.8	0.65	0.90	0.5	0.8	1.5
PLD-Din-100-P-D1-FC2	100	0.65	0.8	0.80	1.25	0.5	1.2	1.0
PLD-Din-300-P-D3-ST4	300	0.65	0.8	5.0	8.0	1.0	5.0	0.5
PLD-DIA-080-M-42-PH5-100	80	0.65	0.8	0.6	--	6 ¹	20 ¹	1.0 ³
		8.52 QE @ ^ =1300nm						
Silicon (@ 10V bias, 850nm, 25°C								
PLD-Dsi-500-R-20-PH2-2ST	500	0.35	0.45	0.25	--	0.1	1.0	1.5
PLD-Dsi-500-R-20-ST3	500	0.35	0.45	0.25	--	0.1	1.0	1.5
PLD-DGa-100--354-FC1	80	0.35	0.45	1.0	2.0	0.4	1.0	1.0
PLD-DSA-200--902-PH2-1FC	200	0.35	0.45	20 ⁴	--	0.1 ¹	1.0 ¹	1.2
		802 QE @ ^ =800nm						
Geranium (@ 0 V bias, 1300 nm, 25° C)								
PLD-DGA-250--28A-PH2	250	0.6	0.7	1000		20		0.40
PLD-DGA-300--36A-SC2	300	0.6 ²	0.8 ²	8 ³	10 ³	1400	3000	0.3
		702 QE @ ^ =1300nm						
10.9 Vb, 2M=1, 3M=10, 4M=100								
Specifications above are examples only.								

DIMENSIONS

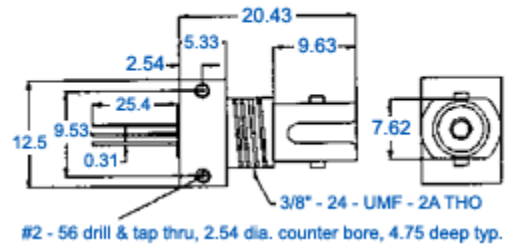
These SLEDs use a proprietary microwelded subassembly to provide optoelectronic devices in active mount receptacles (SC, ST, FC, SMA, DIN, etc.) or with a pigtail. This technique can be used with a variety of TO-package types including those with flat window or lensed caps. Each TO-packaged device is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

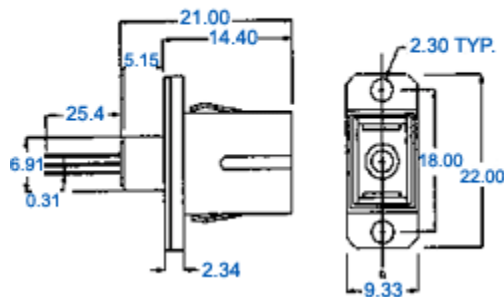
Fibered Package



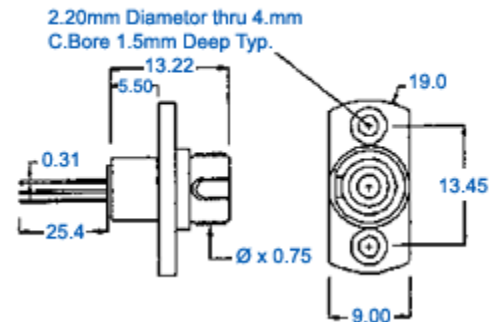
ST Receptacle



SC Receptacle

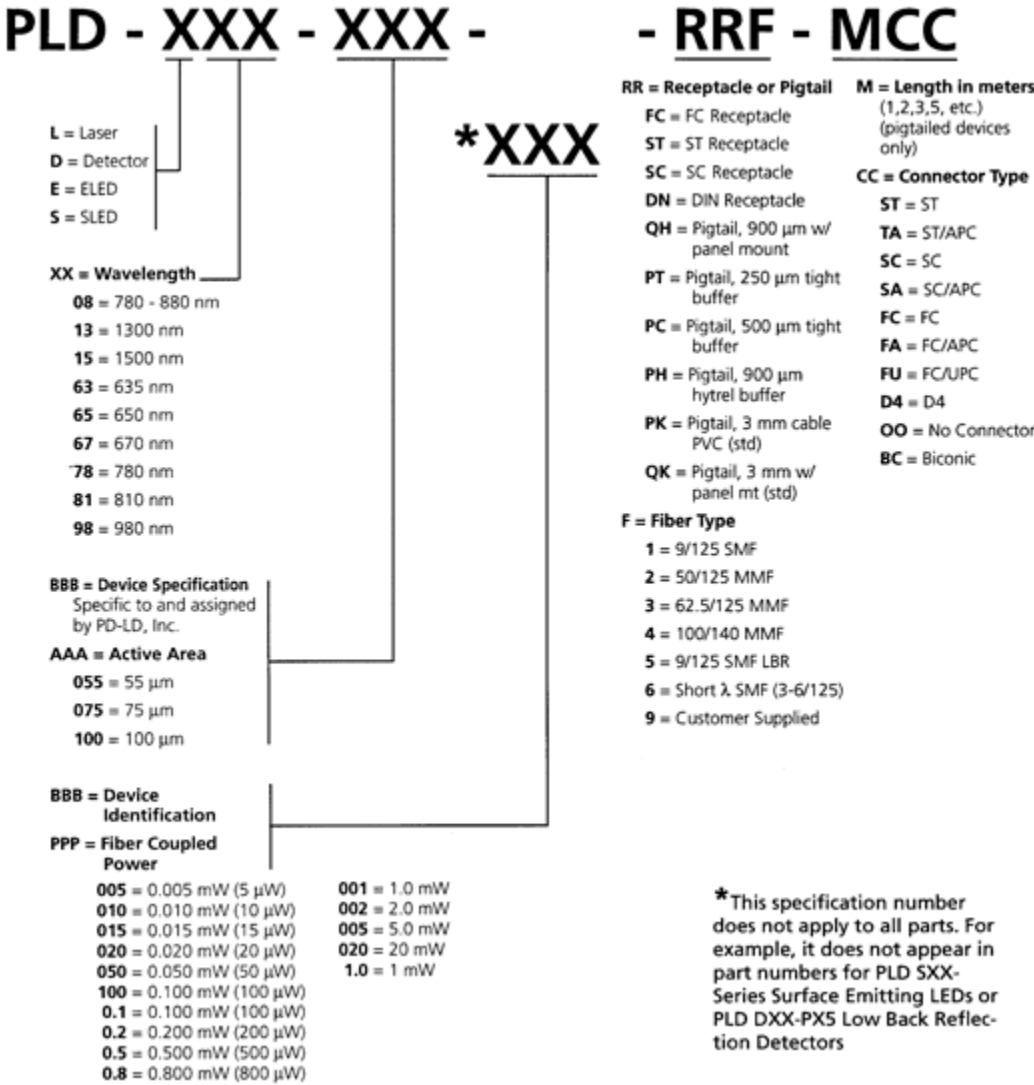


FC Receptacle



ORDERING INFORMATION

Part Number System



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