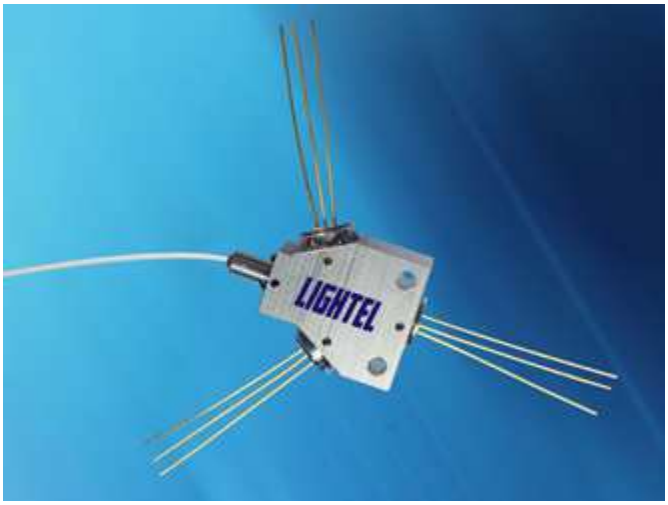
LIGHTEL
True Color Components

PDR
Polarization Diversity Receiver

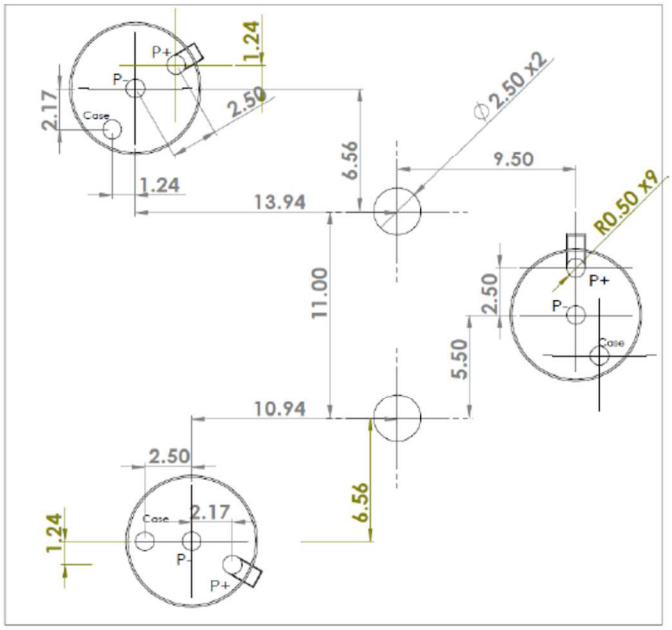
Lightel's Polarization Diversity Receiver (PDR) performs as a receiver for fiber optic interferometers that are susceptible to polarization fading because of random birefringence variations. The device incorporates three independent polarized PIN diodes ensuring that at least one output has high interferometric visibility. This approach eliminates polarization fading in fiber optic interferometers without a consequential lowering of the signal-to-noise ratio. Lightel's PDR is available in 1550nm and 1310nm wavelengths, the unit is PCB mountable and is offered with 900 micron tubing and a variety of connector options.



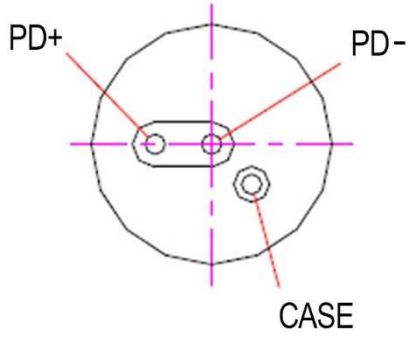
Specifications

Parameter	Specification
Wavelength	1310 nm or 1550 nm
Split Method	1x3 (SMF-28e)
PDR Method	Polarized Detectors
Insertion Loss	< 6.5 dB
Minimum Visibility	> 20%
Amp/Watt	> 0.2
Operating Temperature	0° C ~ + 55° C
Storage Temperature	- 20° C ~ + 65° C

Board Mounting Recommendations and Photodiode Pinout



Board Mounting Recommendations (in mm)



Photodiode Pinout

Ordering Information

P D R – ____ – ____ – ____ – ____

Polarization Diversity Receiver

Center Wavelength
15: 1550 nm
13: 1310 nm

Fiber Length
A: 1 meter
B: 1.5 meter
S: Special

Pigtail Style
(=Package style)
B: bare fiber
L: 900 µm loose tube
K: 2 mm cable
R: 3 mm cable

Connector
0: None
1: FC/PC
2: FC/APC
3: SC/ PC
4: SC/APC
5: FC/SPC
6: SC/SPC
7: LC/UPC
8: LC/SPC
9: Special
A: FC/UPC
B: SC/UPC
C: ST

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