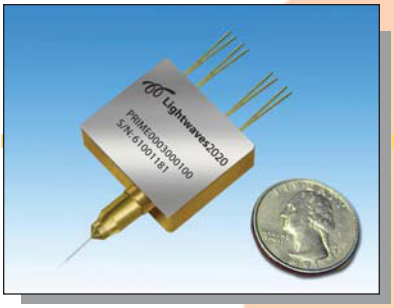
Polarimeter



Parameters	Unit	Specifications			
Operating Wavelength Range	nm	1520 to 1610			
Tap Ratio	%	1	3	5	100
Insertion Loss (through port)	dB	0.4	0.5	0.6	NA
Operating Optical Power Range	dBm	-15 to +15			-35 to +5
PD Responsivity***	A/W	> 0.9			
Wavelength Dependent Responsivity**	%	± 2			
PD Linearity	%	± 5			
PD Dark Current @ -5V & 25°C	nA	< 1.0			
Bandwidth @ R_L= 50Ω	GHz	> 0.6			
Total Capacitance @ f= 1MHz	pF	< 8			
Optical Return Loss	dB	> 50			
Maximum Optical Power Handling	mW	30			
Maximum PD Forward Current	mA	10			
Maximum PD Reverse Voltage	V	20			

*: The specification is defined without electric circuit.
**: With Lightwaves2020's electric circuit and calibration by using Agilent 8509C Polarization analyzer, the accuracy of ±0.02 for SOP and ±2% for DOP can be achieved.
***: PD responsivity excludes losses from splitting optical elements.

Environmental & Physical

Item	Unit	Range
Operating Temperature	°C	0 to 70
Storage Temperature	°C	-40 to 85
Relative Humidity (non-condensing)	%RH	10 to 90
Fiber Pigtail	-	SMF-28e, 250μm bare fiber or 900μm loose tube
Dimension (H x W x D)	mm	19 x 22 x 6.5 (excluding the boot)

Ordering Information

P	R	I	M	E	0	0	0		0	0	0			

Wavelength
E= 1520 to 1610nm

Tap Ratio
1= 1%
3= 3%
5= 5%
0= 100%

Fiber Type
0= SMF-28e

Fiber Length
1= 1.0m
5= 1.5m

Pigtail Type
0= 250μm bare fiber
1= 900μm loose tube

Connector
0= None
1= FC/UPC
2= FC/APC
3= SC/UPC
4= SC/APC
5= LC/UPC
6= MU/UPC

This product information is subject to change without notice.

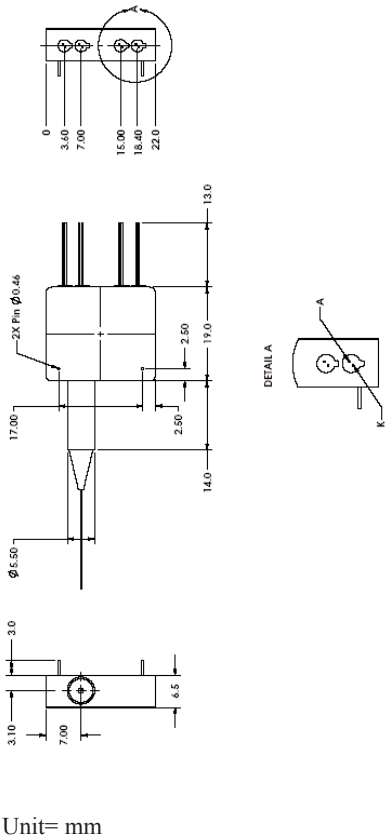
Features / Benefits

- Compact size
- No moving parts
- Fast response
- Low excess loss
- Easy mounting onto PCB board

Applications

- SOP and DOP measurement and monitoring
- Polarization tracking and stabilization
- Polarization division multiplexing
- PMD compensation
- Fiber sensing

Dimensions



Unit= mm