Fiber				
▼ CHAPTERS				
Fiber Patch Cables	Infiber Lin	ear Polarizers		
Bare Fiber		que in-fiber, linear polarizer n using their proprietary chiral (
Fiber Optomechanics	The all-glass in-fiber polarizer provides a high extinction ratio, greater than 30 dB, over broad spectral and operating			
Fiber Components	temperature ranges. Chiral fibers are made by twisting rectangular core fibers in order to create a double-helical core			
Test and Measurement	structure. This doubl	e-helical structure causes light	with the	(Available without Connector)
		he fiber to be scattered out of osite handedness propagates th		
Couplers	core in the twisted re		brough the NEV	$\left(() \right)$ Chiral Photonics
WDMs	Region 1	Region 2	Region 3	
Circulators		00000		Features
Collimators	Propogation Direction (This choice is arbitrary	r as the device is bi-directional)		Passive Fiber ComponentAll-Fiber Technology
Fiber Isolators	Region 1			 Bi-Directional
Faraday Mirrors		nd horizontal states of polariza arization into orthogonal state		Wide Wavelength Range (>50 nm)
Fiber Attenuators	For the devices with fiber is transformed	ith PM Fiber, the light couple ed into a circularly polarized s	d into the slow axis of the	 Damage Threshold is Not Limited by Polarization Region
Termination	opposite of the ch	iral structure so that it stays in th PM fiber, the light coupled	n the core.	
Mating Sleeves	fiber is transforme	ed into a circularly polarized s	tate that has the same	Applications
Polarization Controllers	Region 2			 Polarization Measurement and Control
Rackbox Systems		handedness as the core is scatt te handedness propagates thro		 Coherent Transmission
		om Region 2 is transformed ba ith PM fiber the linearly polar le fiber.		 Test and Measurement Instrumentation Navigation Instrumentation R & D Optical System
	PROPERTIES	SPECIFICATIONS		
	Center Wavelength	980 nm, 1064 nm, 1310 nm, 1550 nm		Typical In-Fiber Polarizer Performance
	Bandwidth	>50 nm	0	
	Extinction Ratio (ER)	>30 dB	<u><u></u></u>	
	Intrinsic ER Insertion Loss	>40 dB <2 dB	(G p) -12 u -16	
	Polarizer Length	42 ±2 mm		
	Package Style	Stainless steel microtubing beneath 900 µm furcation tubing protects device over 280 mm central portion. Entire device is flexible/bendable to 1" radius.	- 16 - 20 - 20 - 24 - 24 - 28 - 32 - 36 - 40	
	Pigtails	Panda PM* or SM**, 1m long	1480 151	
	Operating Temperature Storage Temperature	-40 to 85 °C -70 to 85 °C	Extinction	on Ratio n Loss
	*Polarization-Maintaining Fibe			
	ITEM#	€ £ €	RMB CONNECTORS	DESCRIPTION
	IFP980PM \$			In-Fiber Polarizer, 980 nm, PM/PM Pigtails
	IFP980PM-FC* \$			In-Fiber Polarizer, 980 nm, PM/PM Pigtails, FC/PC
	IFP1064PM \$			In-Fiber Polarizer, 1064 nm, PM/PM Pigtails
	IFP1064PM-FC* \$ IFP1310PM \$			In-Fiber Polarizer, 1064 nm, PM/PM Pigtails, FC/PC In-Fiber Polarizer, 1310 nm, PM/PM Pigtails
	IFP1310PM-FC* \$			In-Fiber Polarizer, 1310 nm, PM/PM Pigtails, FC/PC
	IFP1550PM \$			In-Fiber Polarizer, 1550 nm, PM/PM Pigtails
	IFP1550PM-FC* \$			In-Fiber Polarizer, 1550 nm, PM/PM Pigtails, FC/PC
	IFP1550SM \$ IFP1550SM-FC* \$			In-Fiber Polarizer, 1550 nm, SM/SM Pigtails In-Fiber Polarizer, 1550 nm, SM/SM Pigtails, FC/PC

FC/PC

IFP1550SM-FC* *Slow axis aligned to key

www.thorlabs.com

\$ 360.00 £

249.60 € 319,70 ¥ 3,039.90

THORLABS

In-Fiber Polarizer, 1550 nm, SM/SM Pigtails, FC/PC

▼ TECHNOLOGY