



保偏光纤准直器

Polarization-Maintaining Fiber Collimator

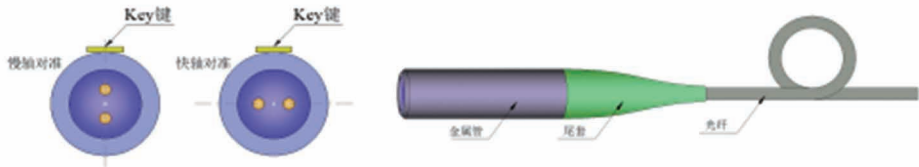
由保偏光纤尾纤和自聚焦透镜或C透镜精确定位封装而成，可将光纤传输出射光变成平行光束（高斯光束），或将外界的平行光聚焦耦合进入光纤内。它可以单只使用，在要求位置达到指定尺寸光斑；也可以配对使用，在一对准直器中间加入滤波片、隔离器等其它光学元件，达到客户使用目的。在以光学相干检测为基础的干涉型光纤传感器中，使用保偏光纤能够保证线偏振方向不变，提高相干信噪比，以实现物理量的高精度测量。

It is assembled precisely by PM fiber pigtail and a Grin lens or C-Lens, which can convert the divergent light into a parallel beam (Gaussian beam) from fiber export , or couple space parallel light into the fiber. It can be used singly to achieve a specified beam size at the required position, or paired with other optical components such as filters and isolators in between two collimators to meet specific customer needs. In fiber optic interferometric sensors based on optical coherence detection, the use of polarization-maintaining fibers can ensure the unchanged polarization direction, improve the coherence signal-to-noise ratio, and achieve high-precision measurement of physical quantities.



在制作保偏器件连接头时，猫眼的连接轴线方向和键槽纤芯连接线方向一致，也称为慢轴对准，两线垂直时，为快轴对准。

When making a polarization maintaining connector, the axis direction of the cat's eye connection is aligned with the connection line direction of the key slot fiber core, also known as slow axis alignment. When the two lines are perpendicular, it is fast axis alignment.



固定工作距离保偏光纤准直器 PM Fiber Optic Collimator for Fixed Working Distance

Wavelength	Bandwidth	WD	Waist Beam	Divergence Angle	Package Dia.	Extinction Ratio	Output Loss	Return Loss	Mode-Field Diameter	Fiber Type
635nm	±20nm	100mm	0.39mm	2.6mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB	4.5±0.5um	PM630-HP
635nm	±20nm	300mm	0.85mm	1.0mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
635nm	±20nm	1000mm	1.32mm	0.7mrad	Φ4.0mm	≥18dB	≤0.5dB	≥55dB		
780nm	±20nm	100mm	0.41mm	2.4mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB	5.2±1.0um	PM780-HP
780nm	±20nm	300mm	0.75mm	1.3mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
780nm	±20nm	1000mm	1.55mm	0.7mrad	Φ4.0mm	≥18dB	≤0.5dB	≥55dB		
850nm	±20nm	100mm	0.37mm	3.0mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
850nm	±20nm	300mm	0.97mm	1.1mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
850nm	±20nm	1000mm	1.51mm	0.75mrad	Φ4.0mm	≥18dB	≤0.5dB	≥55dB	6.6±0.5um	PM980-XP
980nm	±20nm	100mm	0.50mm	2.5mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
980nm	±20nm	300mm	0.96mm	1.3mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
980nm	±20nm	1000mm	1.48mm	0.87mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB		
1064nm	±20nm	100mm	0.51mm	2.7mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1064nm	±20nm	300mm	0.9mm	1.5mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1064nm	±20nm	500mm	1.43mm	0.95mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB	9.3±0.5um	PM1300-XP
1310nm	±20nm	100mm	0.4mm	4.2mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1310nm	±20nm	300mm	0.8mm	2.1mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1310nm	±20nm	1000mm	1.2mm	1.4mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB	10.1±0.5um	PM1550-XP
1550nm	±20nm	100mm	0.45mm	4.4mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1550nm	±20nm	300mm	0.86mm	2.3mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1550nm	±20nm	1000mm	1.3mm	1.5mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB		

工作距离可调保偏光纤准直器 PM Fiber Optic Collimator for Variable Working Distance Range

Wavelength	Bandwidth	WD	Waist Beam	Divergence Angle	Package Dia.	Extinction Ratio	Output Loss	Return Loss	Mode-Field Diameter	Fiber Type
633nm	±20nm	0-100mm	0.39mm	2.6mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB	4.5±0.5um	PM630-HP
780nm	±20nm	0-100mm	0.39mm	2.6mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB	5.2±1.0um	PM780-HP
780nm	±20nm	0-350mm	1.05mm	0.95mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
850nm	±20nm	0-100mm	0.37mm	3.0mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
850nm	±20nm	0-350mm	1.02mm	1.05mrad	Φ3.4mm	≥18dB	≤0.5dB	≥55dB		
980nm	±20nm	0-350mm	0.99mm	1.26mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB	6.6±0.5um	PM980-XP
980nm	±20nm	50-850mm	1.54mm	0.81mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB		
1064nm	±20nm	0-350mm	1.0mm	1.35mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB		
1064nm	±20nm	50-850mm	1.6mm	0.85mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB		
1310nm	±20nm	0-350mm	0.81mm	2.06mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB	9.3±0.5um	PM1300-XP
1310nm	±20nm	50-850mm	1.27mm	1.31mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB		
1550nm	±20nm	0-350mm	0.92mm	2.15mrad	Φ3.4mm	≥20dB	≤0.35dB	≥55dB	10.1±0.5um	PM1550-XP
1550nm	±20nm	50-850mm	1.45mm	1.36mrad	Φ4.0mm	≥20dB	≤0.35dB	≥55dB		

* 消光比值未计算连接头，增加连接头后，消光比减小2dB；

The extinction ratio is not calculated with the connector included. After adding the connector, the extinction ratio decreases by 2dB.

* 出射损耗未计算连接头，增加连接头后，出射损耗增加0.15dB（不考虑对接损耗）；

The output loss is not calculated for the connector. After adding the connector, the output loss increases by 0.15dB (Not considering Flange Insertion Loss.).