

# 保偏光纤分束器 PMFS

## Polarization Maintained Fiber Splitter(PMFS)



作为无源光学元件，保偏光纤分束器的功能是在保持光波原有偏振态前提下，实现光波功率的分束。

保偏光纤分束器采用微光学和成熟的玻璃管工艺制造。具有低WDL、低PDL、工作温度范围和工作波长范围宽等优点。光纤尾纤可定制为保偏 (PM) 光纤或单模保偏 (SM/PM) 光纤。

Act as a passive optical component, PMFS is used to split the optical power into 2 parts, while keeping the original lightwave polarization states.

PMFS is manufactured using micro-optics and proven glass tube process. The features include wide operating wavelength range with low wavelength dependent loss(WDL), low temperature dependent loss(TDL), and low Polarization dependent Loss(PDL), within large operating temperature range. The fiber pigtail can be customized with polarization maintained (PM) fiber, or single-mode polarization maintained (SM/ PM) fiber.

### 主要特点 Features

- 插入损耗低 Low Insertion Loss
- 偏振消光比高 High Polarization Extinction Ratio
- 温度相关损耗变化小 Small Temperature Dependent Loss
- 电光相位调制线性度高 High Electro-optic Phase Modulation Linearity
- 可靠性高 High Reliability

### 应用领域 Applications

- 光纤陀螺 Fiber Optic Gyroscope (FOG)
- 光纤电流传感 Fiber Optic Current Transformer (FOCT)
- 高速光通信 High Speed Optical Coherent
- 其它光纤传感 Other Fiber Optic Sensing



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性能参数:

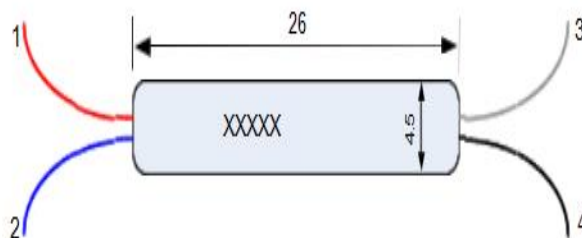
类别 Type	参数 Parameter	符号 Symbol	单位 Unit	性能指标 (典型值) Typical Value	
				50: 50	30: 70
光学性能 Optical	工作波长范围 Operating Wavelength Range	$\lambda_c$	nm	1310±40	
	分光比 Splitter Ratio	D	%	50±5	30±3%:70±3%
	全温分光比 Splitter Ratio Change @ Full Working Temperature Range	$\Delta D$	%	≤2%	
	附加损耗 Insertion loss	IL	dB	≤0.7	
	温度相关损耗 Temperature Dependent Loss	TDL	dB	≤0.2	
	偏振相关损耗 Polarization Dependent Loss	PDL	dB	≤0.15	
	偏振串音 Polarization Extinction Ratio	PER	dB	≤-22(全温≤-18)	
	方向性 Direction	Dir	dB	≥55	
	回波损耗 Return Loss	RL	dB	≥50	
封装结构 Package	封装形式 Package Type	-	-	见产品图纸 See package shape structure	
	器件尺寸(不含	-	mm	φ4.5×26	

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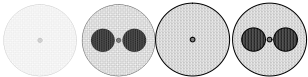
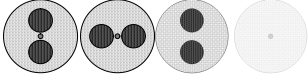
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	引脚) Mechanical Size			
	尾纤类型 Fiber Pigtail Type	-	-	PM/SM
	尾纤长度 Fiber Length	L	m	1.2
环境指标 Environment	工作温度 Working Temperature Range	T <sub>w</sub>	°C	-45~+70
	储存温度 Storage Temperature Range	T <sub>s</sub>	°C	-55~+85

结构尺寸图：

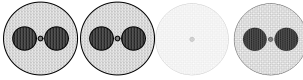
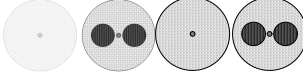
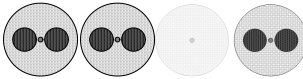


选型列表：

Product code	端口偏振状态	分束比
C302A	两根保偏光纤，一根单模光纤，平行耦合 	50:50
C303A	三根保偏光纤，垂直耦合 	50:50

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C304A	<p>三根保偏光纤，平行耦合</p> 	50:50
C305A	<p>两根保偏光纤，一根单模光纤，平行耦合</p> 	30:70
C306A	<p>三根保偏光纤，平行耦合</p> 	30:70