1x2 Fiber Polarization Splitter / Combiner

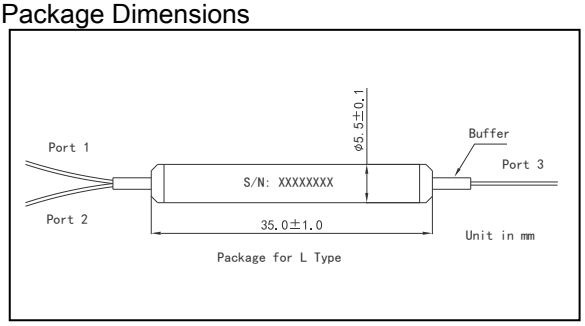
I&Optics' 1x2 fiber polarization splitter / combiner can split an input light into two orthogonal linear polarization portions or combine two linear polarization lights into one. It features very low insertin loss and very high extinction ratio due to our unique technology. It can be used in lasers, telecom, apmlifiers, sensors, testing systems and R&D.

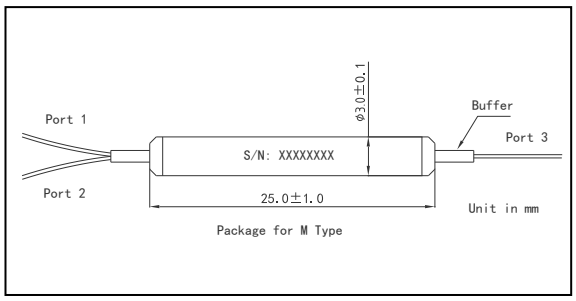
Specification

Parameter	Test Condition	Unit	Value	
Model Type	-	-	L-Type	M-Type
Nominal Center Wavelength	-	nm	633, 850, 980,1064, 1310 , 1550 , 2000 or Specify	
Wavelength Range	-	nm	+/-20 (633/850/9801064nm), others +/-40nm	
Max. Insertion Loss	Port 3 ↔ Port 1/2, Proper SOP	dB	1.0, Typ. 0.8 (633/850nm), 0.7, Typ. 0.55(980/1064/2000nm), others 0.55, Typ. 0.4	
Min. Extinction Ratio	at 23℃, at Slow Axis of Port 1/2, at Both Axis of Port 3 (only for PM Fiber)	dB	21, Typ. 23	
Min. Return Loss	at Center Wavelength	dB	55	50
Max. Power Handling Rate	Continuous Wave	W	0.2 (633/850nm), 0.3 (980/1064nm), other 0.5 or Specify	
Fiber Type	-	-	SM or PM Panda fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	℃	-5 to 70	
Operating Relative Humidity	Non-Condense	%	0 to 95	
Storage Temperature	-	℃	-40 to 85	
Storage Relative Humidity	Non-Condense	%	0 to 95	

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher (0.5dB for 633/850nm), ER will be 2dB lower and return loss will 5dB lower.
The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions





We are very pleased to do our best to provide customized package for optimizing.

Ordering Informations

FPBSC-①-②-③-④-⑤-⑥-⑦

① - Center Wavelength
63 - 633nm
85 - 850nm
98 - 980nm
06 - 1060nm
31 - 1310nm
55 - 1550nm
20 - 2000nm
SS - Specify

② - Model Type
L - L Type
M - M Type

③ - Fiber Type on port 1/2/3
1 - SM 650 Fiber
2 - PM 630 Panda Fiber
3 - Hi 780 Fiber
4 - PM 850 Panda Fiber
5 - Hi 1060 Fiber
6 - PM 980 Panda Fiber
7 - SMF-28e Fiber
8 - PM 1310 Panda Fiber
9 - PM 1550 Panda Fiber

④ - Port 3 Alignement
1 - SM Fiber on Port 3
2 - Slow Axis 45° to Port 1
3 - Slow Axis 0° to Port 1

⑤ - Connector Type on port 1/2/3
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC

⑥ - Fiber Jacket on Port 1/2/3
B - Bare Fiber
L - 900um Loose Tube

⑦ - Fiber Length
0.8 - 0.8m