

Polarization Maintaining Isolator WDM Hybrids

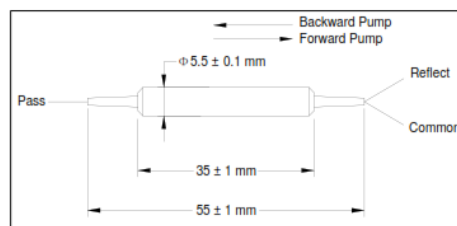
Model #: PMIWDM

Description: 980/1550, 1310/1550, or 1480/1550 nm polarization maintaining isolator WDM hybrids

Application: Fiber amplifier, fiber laser.

Parameter	Unit	Specifications*			
		Single Stage		Dual Stage	
Pass Band					
Signal Wavelength	nm	1530 - 1580			
Max. Insertion Loss (Forward: Pass → Common; Backward: Common → Pass)	dB	0.8	1.0	1.0	1.2
Typ. Peak of Signal Isolation	dB	40		55	
Min. Signal Isolation (1550 ± 10 nm for single stage, 1550 ± 30 nm for dual stage, 23 °C. Forward: Common → Pass; Backward: Pass → Common)	dB	30		45	
Max. Polarization Extinction Ratio	dB	20			
Reflection Band					
Wavelength Range	nm	1270 – 1350, 1450 - 1490	950 - 1010	1270 – 1350, 1450 - 1490	950 - 1010
Max. Insertion Loss	dB	0.6			
Min. Insertion Loss	dB	0.4			
Min. Return Loss	dB	50			
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to + 85			
Dimension	mm	5.5 (D) x 35 (L)			
Fiber Type	Pass Port	1550 Panda PM Fiber			
	Common Port	1550 Panda	PM 980	1550 Panda	PM980
	Reflect Port	PM 1550 or SMF-28	PM980 / HI 1060	PM 1550 or SMF-28	PM980 / HI 1060

* Each connector may contribute extra 0.3 dB IL, 5 dB lower RL and 2 dB lower ER. Connectors keying to slow axis.


Order Information:
1480/1550 type: PMIWDM-48-A-B-C-D-E-F-G
1310/1550 type: PMIWDM-31-A-B-C-D-E-F-G
980/1550 type: PMIWDM-98-A-B-C-D-E-F-G

A: pump method	B: isolate stage	C: connector type	D: fiber jacket	E: fiber type for reflection port	F: fiber length	G: working axis
1 – forward pump	1 – single stage	1 - FC/UPC	B - 250µm bare fiber	M – SMF-28 fiber	Q – 0.75 m	F – fast axis blocked
2 – backward pump	2 – dual stage	2 - FC/APC	L - 900 µm loss tube	P – Panda 1550 PM fiber	X - other	B – both axes working

		3 - SC/UPC	X - other	H – HI 1060		
		4 - SC/APC		E – PM 980		
		N - none		X - other		
		X - other				