

## TAP ISOLATOR WDM HYBRID (TIWDM)

### Features

- Low insertion loss & high isolation
- Low PDL & PMD
- Integrated devices, compact size
- Optical path epoxy free
- Telcordia compliant
- RoHS compliant

### Applications

- EDFA
- Fiber optic instruments



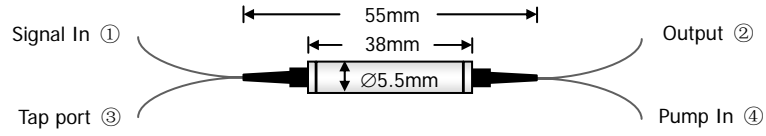
### Specifications

Parameter			Specification				Unit	
Operating Wavelength			980/1550		1480/1550			
Single/Dual Stage			Single	Dual	Single	Dual		
Wavelength Range ( $\lambda_s$ )			1530~1565		1530~1565		nm	
Signal Port	Insertion Loss@ $\lambda_s$ <sup>1</sup>	1%	Typ	0.8	0.9	0.7	0.8	dB
		2%	Typ	0.8	0.9	0.7	0.8	dB
		3%	Typ	0.9	1.0	0.8	0.9	dB
		5%	Typ	1.0	1.1	0.9	1.0	dB
		1%	Max	1.1	1.2	1.0	1.1	dB
	Insertion Loss@ $\lambda_s$ <sup>2</sup>	1%	Max	1.1	1.2	1.0	1.1	dB
		2%	Max	1.1	1.2	1.0	1.1	dB
		3%	Max	1.2	1.3	1.1	1.2	dB
		5%	Max	1.3	1.4	1.2	1.3	dB
		Isolation@ $\lambda_s$ <sup>1</sup>	Min	30	44	30	44	dB
PDL	Max	0.1	0.1	0.1	0.1	dB		
PMD	Max	0.05	0.05	0.05	0.05	ps		
Wavelength Range ( $\lambda_p$ )			960~990		1460~1490		nm	
Pump Port	Insertion Loss@ $\lambda_p$ <sup>1</sup>	Typ	0.4	0.4	0.4	0.4	dB	
	Insertion Loss@ $\lambda_p$ <sup>2</sup>	Max	0.6	0.6	0.6	0.6	dB	
	Isolation@ $\lambda_s$ <sup>1</sup>	Min	15	15	15	15	dB	
	PDL	Max	0.1	0.1	0.1	0.1	dB	
Tap Port	Insertion Loss@ $\lambda_s$ <sup>1</sup>	1%	Typ	19~21	19~21	19~21	19~21	dB
		2%	Typ	16~18	16~18	16~18	16~18	dB
		3%	Typ	14~16	14~16	14~16	14~16	dB
		5%	Typ	12~14	12~14	12~14	12~14	dB
Return Loss	Min	50	50	50	50	dB		
Directivity	Min	50	50	50	50	dB		
Operating Temperature Range			0~+70				°C	
Storage Temperature Range			-40~+85				°C	
Maximum Power Handling			300				mW	
Package Dimension (L* $\varnothing$ )			35*5.5				mm	

1. Tested at 23°C, all SOP, and values referenced without connector.

2. Tested at 0~70°C, all SOP, and values referenced without connector.

### Dimension



### Order Information

#### TIWDM - A - B - C - D - E

A	Operating Wavelength	95: 980/1550 45: 1480/1550
B	Single/Dual Stage	P: Single stage with PMD D: Dual stage
C	Tap Ratio	01: 1%    02: 2% 03: 3%    05: 5% .....
D	Fiber Type	1: 250μm bare fiber 2: 900μm tight buffer fiber
E	Connector Type	0: Without connector 1: FC/PC    2: FC/UPC    3: FC/APC 4: SC/PC    5: SC/UPC    6: SC/APC 7: ST    8: LC    9: MU X: Customized