



Features

Input Signal Power Monitoring
 Pump / Signal Multiplexing
 Insertion Function

Applications

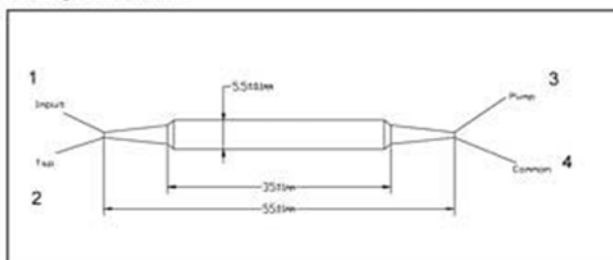
EDFAs
 Fiber Lasers

Specifications

Parameters		Unit	Values	
Stage			Single Stage	Dual Stage
Pass Band	Wavelength Range	nm	1530-1580	
	Max. Insertion Loss (for 980nm Pump) at I→C T for 1%,2%,3%	dB	1.0	1.2
	for 4%,5%		1.2	1.4
	for 10%		1.5	1.7
	Max. Insertion Loss (for 1480nm Pump) at I→C T for 1%,2%,3%	dB	1.0	1.2
	for 4%,5%		1.1	1.3
	for 10%		1.3	1.5
	Min. Isolation at 23°C (1550±15 for S. Stage, 1550±30 for D. Stage)	dB	30	40
	Max. PDL	dB	0.1	0.2
Max. PMD	ps	0.25	0.1	
Reflection Band	Wavelength Range 980 Pump	nm	950-1010	
	1480 Pump	nm	1450-1490	
	Typ. Insertion Loss at C→P	dB	0.3	
	Max. Insertion Loss at C→P	dB	0.5	
	Max. PDL	dB	0.05	
980 and 1480 Tap Port I→T				
	Max. insertion Loss at I→T for 10%	dB	11.5	11.5
	Coupling Ratio	%	1±0.2, 2±0.4, 3±0.6, 4±0.8, 5±1	
	Min. Return Loss	dB	50	
	Max. Optical Power (CW)	mW	500	
	Max. Tensile Load	N	5	
	Fiber Type		1480nm pump: SMF-28e on all ports 980nm pump: HI 1060 on pump and common ports, SMF-28e on other ports	
	Operating Temperature	°C	-5 to +70	
	Storage Temperature	°C	-40 to +85	

*PMD<0.1ps is available. Please refer to below ordering information.
 *Above specifications are for device without connector.
 *For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Package Dimensions



Ordering Information

TIWDM-①①-②-③-④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦

①①: Pump Type
 98 - 980nm Pump
 48 - 1480nm Pump

④: PMD
 1 - 0.1ps Max.
 2 - Refer to above Spec.

⑥⑥⑥⑥: Fiber Jacket on Port 1, 2, 3 & 4
 B - 250um Bare Fiber
 L - 900um Loose Tube
 S - Specify

②: Stage
 S - Single Stage
 D - Dual Stage

⑤⑤⑤⑤: Connector Type on Port 1, 2, 3 & 4
 1 - FC/UPC
 2 - FC/APC
 3 - SC/UPC
 4 - SC/APC

⑦: Fiber Length
 1 - 1.0m
 S - Specify

③: Tap Ratio
 1 - 1%+/-0.2
 2 - 2%+/-0.4
 3 - 3%+/-0.6
 4 - 4%+/-0.8
 5 - 5%+/-1.0
 S - Specify