HYBRID

Isolator-WDM Hybrid
WDM-Isolator Hybrid
1550nm Tap-Isolator Hybrid
Tap/Isolator/WDM Hybrid

Isolator - WDM Hybrid

Features

- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free
- Broad operating wavelength range

Applications

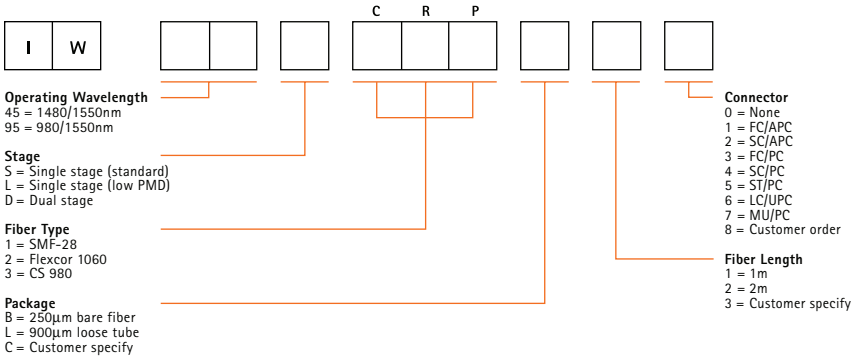
- EDFA module
- Fiber optic test equipment

Specifications

Stage	Single (standard)	Single (low PMD)	Dual
Signal wavelength (nm)	1550 ± 15		1550 ± 30
Pump wavelength (nm)		980 ± 25; 1480 ± 20	
Signal channel insertion loss (dB)	<= 0.7		<= 1.0
Pump channel insertion loss (dB)	<= 0.6		<= 0.6
Signal channel isolation (dB)	>= 31		>= 45
Polarization mode dispersion (PMD) (ps)	<= 0.25	<= 0.05	<= 0.05
Directivity (dB) (all ports)		>= 60	
Return loss (dB) (all ports)		>= 55	
Insertion loss temperature sensitivity (dB / °C)		< 0.005	
Polarization dependence loss (PDL) (dB)		<= 0.1	
Max. operating power (mW)		<= 300	
Max. tensile load (N)		5	
Operating temperature range (°C)		0 ~ 65	
Storage temperature range (°C)		-40 ~ +85	
Fiber type		Corning SMF-28 (for 1480/1550), Flexcor, or CS 980 (for 980/1550)	
Package dimensions (mm)		B: (D) 5.5 x (L) 32; L: (D) 5.5 x (L) 36	

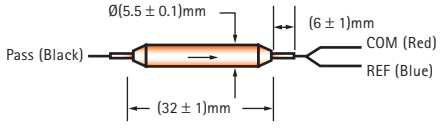
All specifications referenced are without connectors.

Ordering Information

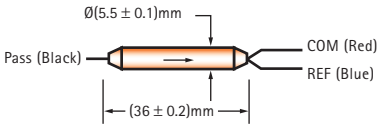


Dimensions

B: 250μm bare fiber



L: 900μm loose tube



WDM – Isolator Hybrid

Features

- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free
- Broad operating wavelength range

Applications

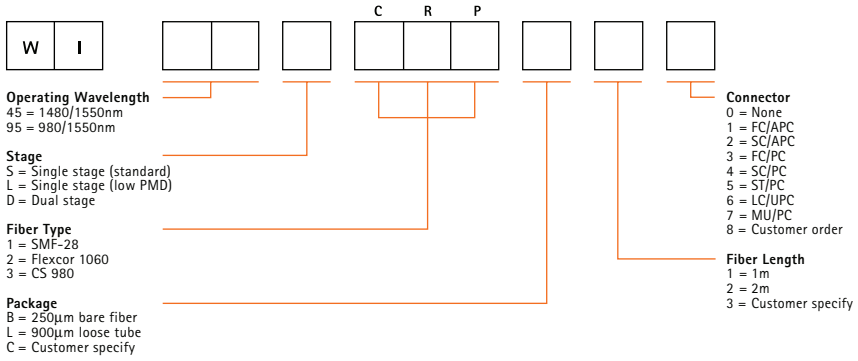
- EDFA module
- Fiber optic test equipment

Specifications

Stage	Single (standard)	Single (low PMD)	Dual
Signal wavelength (nm)	1550 ± 15		1550 ± 30
Pump wavelength (nm)	980 ± 25; 1480 ± 20		
Signal channel insertion loss (dB)	<= 0.7		<= 1.0
Pump channel insertion loss (dB)	<= 0.6		<= 0.6
Signal channel isolation (dB)	>= 31		>= 45
Polarization mode dispersion (PMD) (ps)	<= 0.25	<= 0.05	<= 0.05
Directivity (dB) (all ports)	>= 60		
Return loss (dB) (all ports)	>= 55		
Insertion loss temperature sensitivity (dB / °C)	< 0.005		
Polarization dependence loss (PDL) (dB)	<= 0.1		
Max. operating power (mW)	<= 300		
Max. tensile load (N)	5		
Operating temperature range (°C)	0 ~ 65		
Storage temperature range (°C)	-40 ~ +85		
Fiber type	Corning SMF-28 (for 1480/1550), Flexcor, or CS 980 (for 980/1550)		
Package dimensions (mm)	B: (D) 5.5 x (L) 32; L: (D) 5.5 x (L) 36		

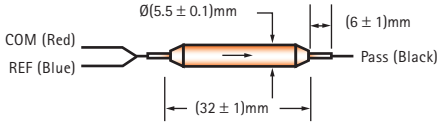
All specifications referenced are without connectors.

Ordering Information

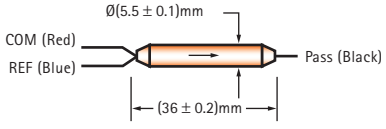


Dimensions

B: 250µm bare fiber



L: 900µm loose tube



1550nm Tap-Isolator Hybrid

Features

- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free
- Broad operating wavelength range

Applications

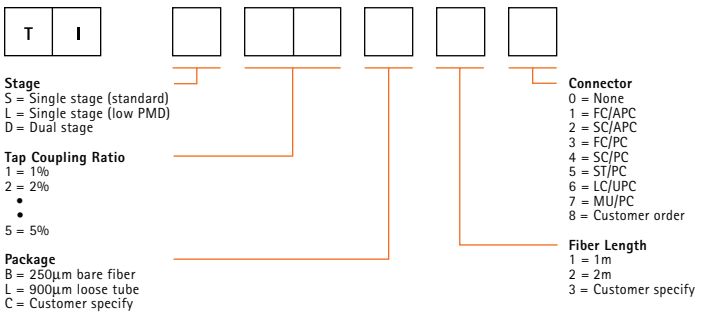
- EDFA module
- Fiber optic test equipment

Specifications

Stage	Single (standard)	Single (low PMD)	Dual
Signal wavelength (nm)	1550 ± 15		1550 ± 30
Signal channel insertion loss (dB)	<= 0.6		<= 1.0
Tap insertion loss range (dB)		14 (5%) ~ 20.8 (1%)	
Signal channel isolation (dB)	>= 31		>= 45
Polarization mode dispersion (PMD) (ps)	<= 0.25	<= 0.05	<= 0.05
Directivity (dB) (all ports)		>= 60	
Return loss (dB) (all ports)		>= 55	
Insertion loss temperature sensitivity (dB / °C)		< 0.005	
Polarization dependence loss (PDL) (dB)		<= 0.1	
Max. operating power (mW)		<= 300	
Max. tensile load (N)		5	
Operating temperature range (°C)		0 ~ 65	
Storage temperature range (°C)		-40 ~ +85	
Fiber type		Corning SMF-28	
Package dimensions (mm)		B: (D) 5.5 x (L) 32; L: (D) 5.5 x (L) 36	

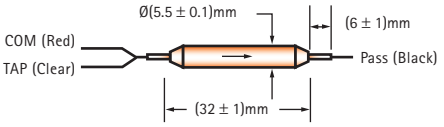
All specifications referenced are without connectors.

Ordering Information

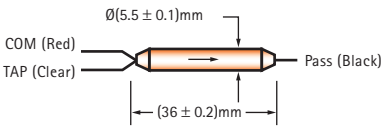


Dimensions

B: 250µm bare fiber



L: 900µm loose tube



Note: The other wavelength specifications are also availbe upon request.

TAP/ISOLATOR/WDM HYBRID

Features

- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free
- Broad operating wavelength range

Applications

- EDFA module
- Fiber optic test equipment

Specifications

Stage	Single (standard)	Single (low PMD)	Dual
Signal wavelength (nm)	1550 ± 15		1550 ± 30
Pump wavelength (nm)		980 ± 25; 1480 ± 20	
Signal channel insertion loss (dB)	<= 1.2 (for 14/15); <= 1.5 (for 98/15)		<= 1.5
Pump channel insertion loss (dB)	<= 0.6		<= 0.6
Tap insertion loss range (dB)		14 (5%) ~ 20.8 (1%)	
Signal channel isolation (dB)	>= 31		>= 45
Polarization mode dispersion (PMD) (ps)	<= 0.25	<= 0.05	<= 0.05
Directivity (dB) (all ports)		>= 60	
Return loss (dB) (all ports)		>= 55	
Insertion loss temperature sensitivity (dB / ˚C)		< 0.005	
Polarization dependence loss (PDL) (dB)		<= 0.1	
Max. operating power (mW)		<= 300	
Max. tensile load (N)		5	
Operating temperature range (˚C)		0 ~ 65	
Storage temperature range (˚C)		-40 ~ +85	
Fiber type	Corning SMF-28 (for 1480/1550), Flexcor, or CS 980 (for 980/1550)		
Package dimensions (mm)	B: (D) 5.5 x (L) 32; L: (D) 5.5 x (L) 36		

All specifications referenced are without connectors.

Ordering Information

T I W | | | | C R P T | | | |

Operating Wavelength
45 = 1480/1550nm
95 = 980/1550nm

Stage
S = Single stage (standard)
L = Single stage (low PMD)
D = Dual stage

Tap Coupling Ratio
1 = 1%
2 = 2%
•
•
5 = 5%

Fiber Type
1 = SMF-28
2 = Flexcor 1060
3 = CS 980

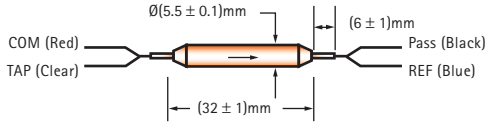
Connector
0 = None
1 = FC/APC
2 = SC/APC
3 = FC/PC
4 = SC/PC
5 = ST/PC
6 = LC/UPC
7 = MU/PC
8 = Customer order

Fiber Length
1 = 1m
2 = 2m
3 = Customer specify

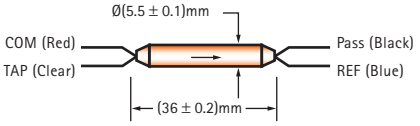
Package
B = 250μm bare fiber
L = 900μm loose tube
C = Customer specify

Dimensions

B: 250μm bare fiber



L: 900μm loose tube



Notes