OptiWorks
A BizLink Group Company

Coupler/ PLC

Singlemode Coupler

Key Features

- Low excess loss
- Broad operation band
- Various split ratio
- High stability and reliability
- Compact packages

Applications

- Access network
- CATV systems & fiber optic sensor
- FTTx
- Networks TAP monitoring

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Parameter Specifications

Parameters		Single Window Standard	Single Window Wide Band	Dual Window Wide Band	Units
Operating Wavelength		980 or 1310 or 1480 or 1550		1310/1550	nm
Operating Bandwidth		±15	±40	±40	nm
Structure		1 x 2 or 2 x 2	1 x 2 or 2 x 2	1 x 2 or 2 x 2	
Insertion Loss	50:50	≤3.3/3.3	≤3.4/3.4	≤3.6/3.6	dB
Insertion Loss	40:60	≤4.5/2.5	≤4.4/2.6	≤4.5/2.7	dB
Insertion Loss	30:70	≤5.6/1.8	≤5.8/1.9	≤5.8/2.1	dB
Insertion Loss	20:80	≤7.2/1.3	≤7.4/1.4	≤7.4/1.5	dB
Insertion Loss	10:90	≤10.2/0.75	≤10.5/0.85	≤10.5/0.95	dB
Insertion Loss	5:95	≤13.5/0.5	≤13.5/0.62	≤13.5/0.72	dB
Insertion Loss	2:98	≤17.5/0.4	≤17.5/0.5	≤17.6/0.6	dB
Insertion Loss	1:99	≤21/0.35	≤21/0.45	≤21/0.6	dB
PDL		≤0.2/≤0.1	≤0.25/≤0.1	≤0.25/≤0.15	dB
Return Loss			≥50		dB
Directivity			≥50		dB
Fiber Length			≥1.00		m
Fiber Type			SMF-28e+		
Package	250μm bare fiber		Φ 3 x 45		mm
	900μm loose tube		Φ 3 x 54		
	2mm or 3mm jacket		90 x 20 x 9		

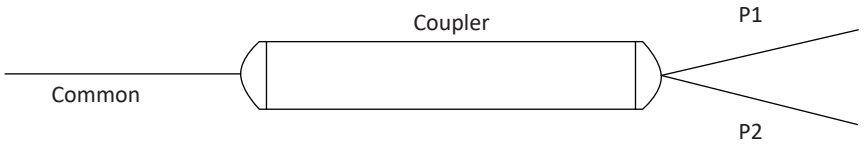
Notes:
1. The above specs exclude connector loss; each pair of connectors adds 0.2dB.

Operating Conditions

Parameters	Performance Specifications	Units
Maximum Power handling	500	mW
Operating Temperature*	-40 ~ +70	°C
Storage Temperature	-40 ~ +85	°C
Operation Humidity	5 to 95 % Relative Humidity	

* Contact us for your Industrial temperature application.

Mechanical Dimensions



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Part Number Scheme: Singlemode Coupler

Product Type
1 = standard
2 = wide band
3 = dual window

Configuration
12 = 1x2
22 = 2x2

Fiber Type
1 = SMF-28e+
2 = Hi 1060
X = Customized

Fiber Length
00 = None
10 = 1.0 m
15 = 1.5 m
30 = 3.0 m
mn = m.n meters

Wavelength
A = 980 nm
B = 1310 nm
C = 1550 nm
D = 1480 nm
I = 1310/1550 nm
X = Customized

Split Ratio
50 = 50:50
40 = 40:60
30 = 30:70
20 = 20:80
10 = 10:90
05 = 5:95
02 = 2:98
01 = 1:99

Jacket Type
A = 250 µm
B = 900 µm
C = 2 mm
D = 3 mm

Package Type
S = Standard Tube
C = Compact Tube
L = Aluminum
A = ABS
G = LGX

Connector Type
0 = None
2 = FC/UPC
3 = FC/APC
4 = SC/UPC
5 = SC/APC
6 = ST/UPC
7 = LC/UPC
8 = LC/APC
M = MTP 12P
N = MTP 24P
O = MPO 12P
P = MPO 24P
H = MU/UPC
X = Customized

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