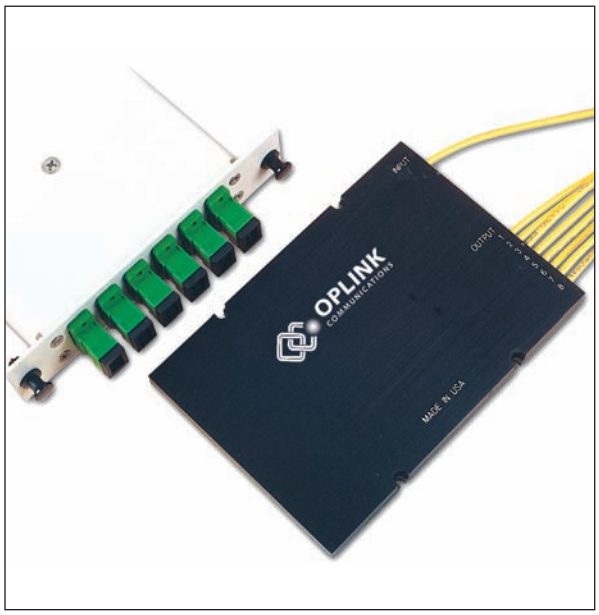
Dual Windows, Single Mode Windband Tree/star Coupler (NxM)

DWTC Series

Product Description

Oplink's Dual window, single mode wideband tree and star couplers are high port count bi-directional products with excellent performance over two wide wavelength bands. They have very good uniformity, low excess loss and very low polarization sensitivity. All devices are tested according to industry standard test procedures and are supplied with all pertinent measurement data.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full functionmodule or subsystem.



Features

- Best Uniformity
- Ultra Low Insertion Loss
- High Directivity
- HIghly Stable & Reliable

Applications

- Telecommunications
- CATV Fiberoptic Links
- Fiber Amplifier System
- Fiberoptic Instruments

Performance Specification

DWTC Series (NxM)	Nx4	Nx5	Nx6	Nx8	Nx16	Nx32	Nx40	Unit
Standard Configuration	N=1,2,4	N=1	N=1,2	N=1,2,8	N=1,2,16	N=1,2	N=1,2	
Grade	P/A	P/A	P/A	P/A	P/A	P/A	P/A	
Operating Wavelength Range	1270~1350 / 1510~1590							nm
Insertion Loss (Max)	7.2/7.6	8.5/9.0	9.2/9.6	10.8/11.0	14.4/14.7	18.0/18.4	19.5/20.0	dB
Uniformity (Max)	1.2/1.5	1.4/1.8	1.6/2.0	1.8/2.2	2.4/2.8	3.0/3.5	3.5/4.0	dB
Polarization Dependent Loss	<0.3	<0.3	<0.4	<0.5	<0.5	<0.6	<0.6	dB
Directivity	> 55							dB
Maximum Power Handling	500							mW
Operating Temperature	0 to +70							°C
Storage Temperature	-40 to +85							°C
Package Dimension [2]	Refer packaging choices table							mm
	P1 : 100.0 (L) x 80.0 (w) x 7.0(H)				P3 : 160.0 (L) x 110.0 (w) x 11.0 (H)			
	P2 : 130.0 (L) x 90.0 (w) x 9.0 (H)				P4 : 210.0 (L) x 160.0 (w) x 13.0 (H)			

[1] The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified, does not include contribution from connectors.
[2] The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.

Packaging Choices Table

SWTC (NxM)	Nx4	Nx5	Nx6	1x8	2x8	8x8	1x16	2x16	16x16	1x32	2x32	1x40	2x40
Packaging Choices	P1	P1	P1, P2	P1, P2	P1, P2	P2	P3	P3	P4	P4	P4	P4	P4

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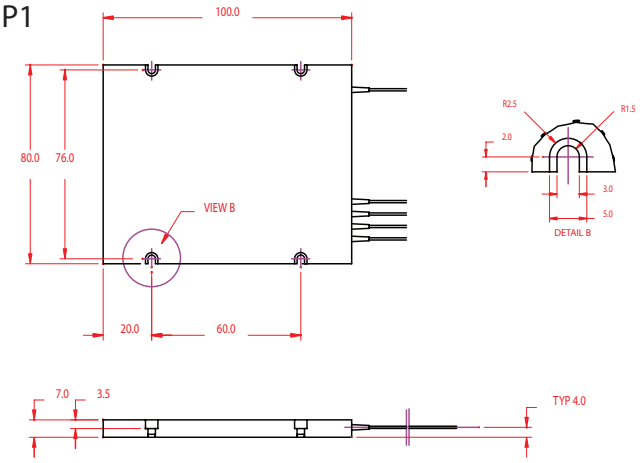
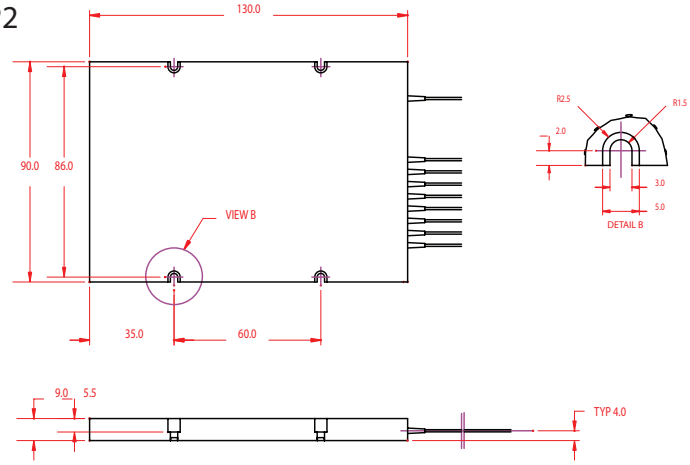
Mechanical Drawing / Package Dimensions (dimension in mm)

Notes: The fibre holes only for referece

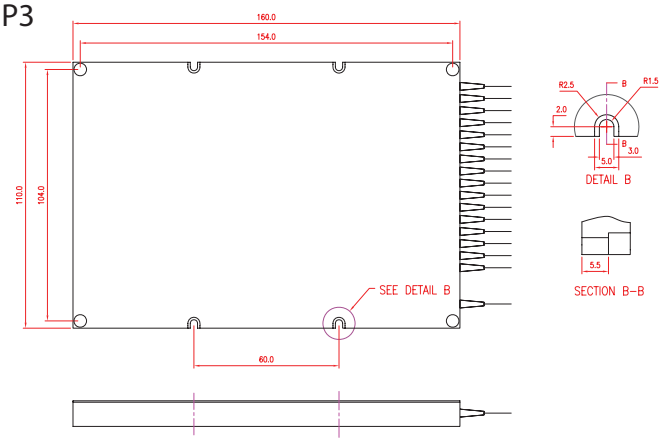
P1



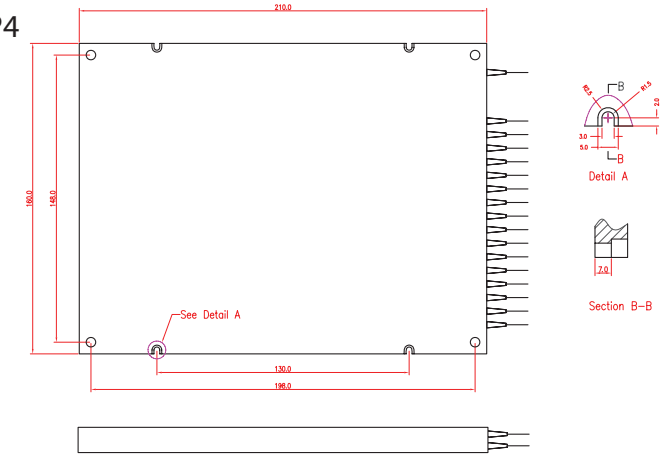
P2



P3



P4



Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

DWTC □ □ □ □ 0 0 0 □ □ □ □

Wavelength
1 = 1310/1550 nm

Type
14 = 1x4
15 = 1x5
16 = 1x6
18 = 1x8
1A = 1x16
1B = 1x32
1C = 1x40
24 = 2x4
26 = 2x6
28 = 2x8
2A = 2x16
2B = 2x32
2C = 2x40
44 = 4x4
88 = 8x8
AA = 16x16

Grade
P = P grade
A = A grade

Package Type [4]
1 = P1
2 = P2
3 = P3
4 = P4

Fiber Type
2 = SMF-28 with 900µm loose tube
3 = SMF-28 with 3mm cable

Fiber Length [3]
H = 0.5 meter
1 = 1.0 meter
5 = 1.5 meter
2 = 2.0 meter

Connector Type
1 = None
2 = FC/PC
3 = FC/SPC
4 = FC/APC
5 = SC/PC
6 = SC/SPC
7 = SC/APC
8 = ST
9 = LC/UPC
A = MU
B = LC/APC

[3] The tolerance of fiber length is +/-0.1m. 1 meter is standard. The lead time for special fiber length will be longer.
[4] Refer package table for packaging choices

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