

DUAL WINDOW SINGLE MODE WIDEBAND TREE/STAR COUPLER (NxM)

DWTC Series

Features

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

Applications

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

DUAL WINDOW, SINGLE MODE WIDEBAND TREE/STAR COUPLER

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.

Performance Specifications

DWTC Series								Units
DWTC Series (NxM)	Nx4	Nx5	Nx6	Nx8	Nx16	Nx32	Nx40	
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	A/B	A/B	A/B	A/B	A/B	A/B	A/B	
Operating Wavelength	1290-1350 and 1510-1590							nm
Operating Temperature	-40 to +70							°C
Storage Temperature	-40 to +85							°C
Maximum Insertion Loss	7.2/7.6	8.5/9.0	9.2/9.6	9.3/10.0	14.5/15.5	18.5/19.5	20.0/21.0	dB
Max Uniformity	1.2/1.6	1.4/1.8	1.6/2.0	2.0/2.5	2.5/3.5	3.5/4.0	3.8/4.2	dB
Polarization Sensitivity	0.3	0.3	0.4	0.5	0.6	0.8	0.8	dB
Temperature Sensitivity	< 0.003	< 0.003	< 0.003	< 0.004	< 0.005	< 0.006	< 0.007	dB/°C
Directivity	> 55							dB
Maximum Power Handling	500							mW
Package Dimension **	P1	P1	P2	P2	P3*	P4	P4	mm
P1: (L)100 x (W) 80 x (H) 7								
P2: (L)130 x (W) 90 x (H) 9								
P3: (L)160 x (W)110 x (H)11								
P4: (L)210 x (W)160 x (H)13								

* Except for 16x16 which uses P4 package

Values are referenced without connector loss.

** The mechanical tolerance should be +/- 0.2 mm on all package dimensions unless otherwise custom specified.

Ordering Information

