

DUAL WINDOW SINGLE MODE WIDEBAND FIBER COUPLER (1x2, 2x2)

DWFC Series

DUAL WINDOW, SINGLE MODE WIDEBAND FIBER COUPLER

Oplink's dual window, single mode wideband fiber couplers are highly stable for multi-port optical signal splitting. 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.



Features

- Dual Window Wideband Operation
- Ultra Low Polarization Sensitivity
- High Directivity
- Highly Stable & Reliable

Applications

- Telecommunications
- CATV
- Network Monitoring
- Local Area Network

Performance Specifications

DWFC Series	Premium	Grade A	Unit
Coupling Ratio	1/99 to 50/50		
Operating Wavelength	1270-1350 and 1510-1590		nm
Maximum Tensile Load	5		N
Insertion Loss	Split Ratio: 50/50	< 3.6	< 3.9
	Split Ratio: 40/60	< 4.7/2.7	< 5.0/2.9
	Split Ratio: 30/70	< 6.0/1.9	< 6.4/2.1
	Split Ratio: 20/80	< 7.9/1.2	< 8.4/1.4
	Split Ratio: 10/90	< 11.3/0.65	< 12.7/0.8
	Split Ratio: 5/95	< 15.2/0.45	< 18.0/0.5
	Split Ratio: 1/99	< 23.5/0.3	< 24.0/0.6
Uniformity (50/50)	< 0.7		< 1.2
Polarization Dependent Loss	< 0.15		< 0.2
Temperature Sensitivity	< 0.002		< 0.002
Directivity	> 55		dB
Maximum Power Handling	500		mW
Operating Temperature	-10 to +70		°C
Storage Temperature	-40 to +85		°C
Package Dimension *	P1: 250 μ m SMF-28 fiber	(ϕ)3.0 x (L)54	mm
	P2: 900 μ m loose tube	(ϕ)3.0 x (L)60	
	P3: 3mm cable	(L)96 x (W)12 x (H)6.4	

Values are referenced without connector loss.

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

Ordering Information

