

Optical Coupler

Plank Ultra-Low PDL Coupler Single Mode; Wide Band (+/-10nm)

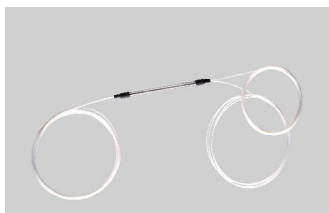
Plank Optoelectronics Inc. is a professional developer and manufacturer of fiber optical communication components that deploy high-capacity broadband communications networking with advances in Fiber Optics technologies.

Features

- Wide band operation
- Low Insertion loss
- Polarization insensitive
- Variety of coupling ratios
- High directivity
- Environmentally stable and reliable

Applications

- Telecommunications
- CATV
- Subscriber loop
- Local Area Networks(LAN)
- Test equipment
- Optical fiber sensors



Specifications

1x2, 2x2, Low PDL Coupler, Wideband+/-40nm		
Parameters	P Grade	A Grade
Operating Wavelength(nm)	1310 or 1550 (±40)	
Uniformity (dB)	≤ 0.5	≤ 0.6
Coupling Ration (%)	1 : 99 to 50 : 50	
Polarization Stability (dB)	≤ 0.05	
Directivity (dB)	> 55	
Operation temp.(°C)	-40 to +70	
Storage temp.(°C)	-40 to +85	
Temp. Coefficient (dB/°C)	< 0.002(Max.)	
Dimensions (mm)	Bare fiber : 3.0 (φ) x 54 (L) Loose tube : 3.5(φ) x 65 (L) PVC : 95(L) x 12(W) x 10(H)	
Coupling Ratio / Insertion Loss Reference Table		
Desired Splitting Ratio	P Grade	A Grade
50 : 50	3.3	3.4
40 : 60	4.3/2.5	4.4/2.5
30 : 70	5.5/1.7	5.6/1.8
20 : 80	7.4/1.1	7.5/1.2
10 : 90	10.7/0.6	11.0/0.6
5 : 95	14.0/0.4	14.6/0.4
1 : 99	21.0/0.2	21.5/0.2
** The specifications listed above do not include the effect of connector loss.		
** Connector Type: SC,FC,ST,SC/APC,FC/APC,LC,MU are available.		
** Specification values for devices with unbalanced split ratios are available upon request.		