

Optical Coupler

Plank Ultra-Flat, Low WDL Coupler Single Mode ; Wide Band (+/-40nm)

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

- Ultra Low WDL(the variation of the insertion loss over the operation wavelength range)
- Low Insertion loss
- Wavelength Independent at C & L band
- Environmentally stable and reliable



Applications

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



Specifications

1x2, 2x2, Low WDL Coupler, Wideband+/-40nm

Parameters	P Grade	A Grade
Operating Wavelength(nm)	1310 or 1550 (±40)	
Coupling Ratio (%)	1 : 99 to 50 : 50	
Polarization Stability (dB)	0.12	0.15
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	
	I.L	WDL	I.L	WDL
50:50	3.4	0.2	3.6	0.3
40 : 60	4.4 / 2.5	0.2	4.7 / 2.7	0.3
30 : 70	5.6 / 1.8	0.25	6.0 / 1.9	0.3
20:80	7.5 / 1.1	0.25	7.9 / 1.2	0.35
10:90	11.0 / 0.6	0.3	11.3 / 0.6	0.35
5:95	14.6 / 0.4	0.35	15.2 / 0.4	0.4
1:99	21.5 / 0.2	0.4	23.5 / 0.3	0.5

** 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.