

# Optical Coupler

## Plank Miniature Size Dual-window Coupler 1x2 and 2x2; 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

- Dual window wavelength
- 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

<b>1x2, 2x2, Miniature Size Wideband +/-40nm</b>		
Parameters	P Grade	A Grade
Operating Wavelength(nm)	1310 & 1550(±40)	
Uniformity (dB)	≤ 0.6	≤ 0.8
Coupling Ratio (%)	1 : 99 to 50 : 50	
Polarization Stability (dB)	0.15	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 35 ( L ) Loose tube: 3.5(Φ) x 42 ( L )	
<b>Coupling Ratio / Insertion Loss Reference Table</b>		
Desired Splitting Ratio	P Grade	A Grade
50 : 50	3.4	3.6
40 : 60	4.4 / 2.5	4.7 / 2.7
30 : 70	5.6 / 1.8	6.0 / 1.9
20 : 80	7.5 / 1.2	7.9 / 1.2
10 : 90	10.8 / 0.6	11.3 / 0.6
5 : 95	14.6 / 0.4	15.2 / 0.4
1 : 99	21.5 / 0.2	23.5 / 0.3
** 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.		