Optical Coupler

# Plank Single-mode 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

***1x2, 2x2, Single mode, Dual window Wideband+/-40nm***

| Parameters | A Grade | B Grade |
|---|---|---|
| Operating Wavelength(nm) | 1310 & 1550 (±40) | |
| Excess loss (dB) | 0.2 | 0.3 |
| Uniformity (dB) | 0.8 | 1.2 |
| Coupling Ration (%) | 1 : 99 to 50 : 50 | |
| Polarization Stability (dB) | 0.15 | 0.2 |
| Directivity (dB) | >55 | |
| Operation temp.(□) | -40 to +70 * | |
| Storage temp.(□) | -50 to +85 | |
| Temp. Coefficient (dB/□) | <0.002( Max.) | |
| Dimensions (mm) | Bare fiber: 3.0 (ψ) x 54 ( L )<br>Loose tube: 3.5(ψ) x 65 ( L )<br>PVC: 95(L) x 12(W) x 10(H) | |

***Coupling Ratio / Insertion Loss Reference Table***

| Desired Splitting Ratio | A Grade | B Grade |
|---|---|---|
| 50 : 50 | 3.6 | 3.9 |
| 40 : 60 | 4.7/2.7 | 5.0/2.9 |
| 30 : 70 | 6.0/1.9 | 6.4/2.1 |
| 20 : 80 | 7.9/1.2 | 8.5/1.4 |
| 10 : 90 | 11.3/0.6 | 12.7/0.8 |
| 5 : 95 | 15.2/0.4 | 18.9/0.5 |
| 1 : 99 | 23.5/0.3 | 24.0/0.4 |

* Bare fiber: -40 to +70, other package: 0 to +70
** 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.

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