

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 Ratio (%) | 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. | | |