AC Photonics

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# 1x4 Singlemode Single Fusion Tree/Star Dual Window Coupler

## Key Features

- Low Excess Loss
- Single Fusion Design
- Uniform Power Splitting
- Compact Size

## Applications

- Telecommunication Systems
- Digital, Hybrid and AM-Video System
- CATV Systems
- Fiber Sensors

## Performance Specifications

| Parameter | Specifications | |
|---|---|---|
| Operating Wavelength | 1310/1550nm ± 40nm, 1310/1585nm ± 40nm, or Custom wavelength | |
| Port Configuration | 1x4 | |
| Grade | P Grade | A Grade |
| Excess Loss (Max.) | 0.30dB | 0.40dB |
| Insertion loss (Max.) | 7.50dB | 7.90dB |
| Uniformity (Max.) | 1.40dB | 1.80dB |
| PDL (Max.) | 0.20dB | 0.30dB |
| Directivity | ≥ 55dB | |
| Operating Temperature | -20 to +75°C (-40 to +85°C Available upon request) | |
| Storage Temperature | -40 to + 85°C | |
| Reliablity Requirement | Compliant with GR-1209-CORE and GR-1221-CORE | |
| Fiber Type | Corning singlemode SMF-28, DS fiber | |
| Fiber Pigtail Length | 1m | |
| Fiber Color Code | Colored | |
| Package Dimensions (mm) | PackageA, B, C | |

Note:

1. All values referencedare without connector.
2. Temperture Dependent Loss is defined as the insertion loss veriation over the whole working range.
3. All values referencedare without connector.

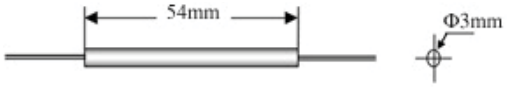
## Ordering Information

| □ | □ | □□ | □□ | □□□□ | □ | □ | □ | □□ |
|---|---|---|---|---|---|---|---|---|
| **Type** | **Grade** | **Wavelength** | **Coupling Ratio or Attenuation (dB)** | **Port** | **Package** | **Pigtail Style** | **Fiber Type** | **In/Out Connector** |
| ↓ | S = Special<br>P = P Grade<br>A = A Grade | 35 = 1310/1550nm | AV = Tree Coupler | 0104 = 1x4 | A = Package A<br>B = Package B<br>C = Package C | 1 = 250um Bear Fiber<br>2 = 900um Jacket<br>3 = 3mm Cable | 0 = SMF-28<br>D = DS Fiber<br>S = Special | 0 = None<br>1 = FC/APC<br>2 = FC/PC<br>3 = SC/APC<br>4 = SC/PC<br>5 = ST<br>6 = LC/UPC<br>7 = LC/APC<br>X = Special |
| S = Singlemode Standard Coupler<br>W = Singlemode Wideband Couple | | | | | | | | |

# Package Dimensions & Pigtail Style

## Pigtail Dimensions:

Package A: 3mm x 54mm Stainless Steel Tube




Package B: 3mm x 60mm Stainless Steel Tube


Package C: 8.5mm x14mm x 98mm Case


## Pigtail Style:

Package A: 250um Bare Fiber
Package B: 250um Bare Fiber or 900um Loose Tube
Package C: 3mm Cable or 900um Loose Tube