

1x4 Singlemode Single Fusion Tree 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 | |
|-------------------------|---|---------|
| Type | Single Fusion | |
| Operating Wavelength | 830nm, 850nm, 980nm, 1310nm, 1480nm, 1550nm, 1585nm, or Custom wavelength | |
| Operating Bandwidth | "S" type: ± 10 nm, "W" type: ± 40 nm | |
| Port Configuration | 1x4 | |
| Grade | P Grade | A Grade |
| Excess Loss (Max.) | 0.20dB | 0.30dB |
| Insertion loss (Max.) | 6.70dB | 7.60dB |
| Uniformity (Max.) | 1.0dB | 1.40dB |
| PDL (Max.) | 0.12dB | 0.15dB |
| Directivity | 50dB | |
| Operating Temperature | -20 to +75°C (-40 to +85°C Available upon request) | |
| Fiber Type | Corning singlemode SMF-28, DS fiber or Flexcore | |
| Fiber Pigtail Length | 1m | |
| Package Dimensions (mm) | PackageA, B, C | |

Note:

All values referenced are without connector and are for 1310, 1480, 1550, and 1585 only. For 830, 850 and 980nm, please add 0.3 dB IL.

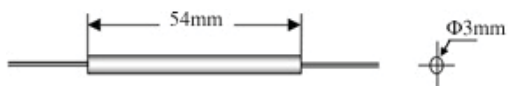
Ordering Information

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|---|---|--|------------------------------------|------------|---|---|--|---|
| Type | Grade | Wavelength | Coupling Ratio or Attenuation (dB) | Port | Package | Pigtail Style | Fiber Type | In/Out Connector |
| ↓ | S = Special P = P Grade A = A Grade | 85 = 850nm 98 = 980nm 13 = 1310nm 14 = 1480nm 15 = 1550nm 16 = 1580nm | AV = Tree Coupler | 0104 = 1x4 | A = Package A B = Package B C = Package C | 1 = 250um Bear Fiber 2 = 900um Jacket 3 = 3mm Cable | 0 = SMF-28 1 = HI 1060 2 = HI 780 D = DS Fiber S = Special | 0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC X = Special |
| S = Singlemode Standard Coupler 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 x 14mm 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