



# Singlemode Single Fusion Tree/Star Couplers



### Features

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

### Applications

- Telecommunication Systems
- Digital, Hybrid and AM-Videosystems
- CATV Systems
- Fiber Sensors

## Performance Specifications

| Type                       | Single Fused                                    |       |
|----------------------------|---|-------|
|                            | P   | A     |
| Grade                      | P   | A     |
| Port Configuration         | 1 x 4   | 1 x 4 |
| Excess Loss (Typ.) (dB)    | 0.2   | 0.3   |
| Insertion Loss (Max.) (dB) | 6.7   | 7.6   |
| Uniformity (Max.) (dB)     | 1.0   | 1.4   |
| PDL (Min.) (dB)            | 0.12  | 0.15  |
| Operating Wavelength (nm)  | 980,1310,1480,1550,1585 or custom wavelength    |       |
| Operating Bandwidth (nm)   | "S" type: +/-10nm, "W" type: +/-40nm            |       |
| Directivity (Min.) (dB)    | 50  |       |
| Operating Temperature (°C) | -20 ~ +70 (-40 ~ +85 available upon request)    |       |
| Fiber Type                 | Corning singlemode SMF-28, DS fiber or Flexcore |       |
| Fiber Pigtail Length (m)   | 1   |       |
| Dimensions (mm)            | Package A, B, C                                 |       |

Note: All values referenced are without connector.



## Ordering Information

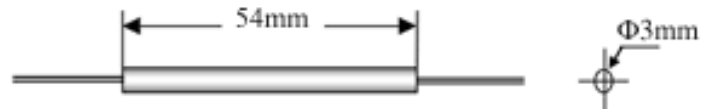
| Type   | Grade  | Wavelength  | Coupling Ratio or Attenuation (dB) | Port     | Package                                   | Pigtail Style                                 | Fiber Type  | In/Out Connector  |
|--------|--------|---|------------------------------------|----------|---|---|---|---|
| S<br>W | S<br>P | 85=850nm<br>98=980nm<br>13=1310nm<br>14=1480nm<br>15=1550 nm<br>16=1585nm | AV = Tree Coupler                  | 0104=1x4 | A=Package A<br>B=Package B<br>C=Package C | 1=Bare Fiber<br>2=900um Jacket<br>3=3mm Cable | 0=SMF 28<br>1=Corning Flexcore<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 |

\* **Type:** S -- Singlemode Standard Coupler  
W -- Singlemode Wideband Coupler

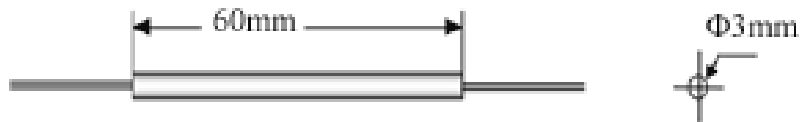
## Dimensions & Pigtail Style

### Package Dimensions

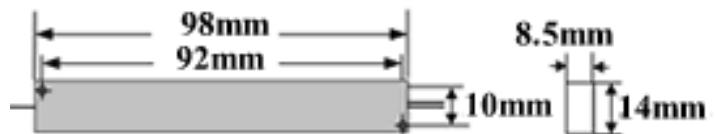
Package A:  
3mm x 54mm Stainless Steel Tube



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

