

## Singlemode Tree / Star Couplers



### Key Features

- Low Excess Loss
- Uniform Power Splitting
- Rugged Package
- Excellent Environmental & Mechanical Stability

### Applications

- Long-haul Telecommunications
- Digital, Hybrid and AM-Video Systems
- CATV Systems
- High Speed Local Area Networks
- Fiber Sensors

### Performance Specifications

Parameter	Specifications
Port Configuration	1x4 to 32x32
Directivity	≥ 55dB
Operating Temperature	-20 to +75°C (-40 to +85°C Available upon request)
Storage Temperature	-40 to + 85°C
Fiber Type	Corning singlemode SMF-28,DS fiber or flexcore
Fiber Pigtail Length	1m or custom on request
Package Dimensions (mm)	Package D, E, S

Singlemode Standard Tree / Star Coupler				
Operating Wavelength	850nm±10nm, 980nm±10nm, 1310nm±10nm, 1550nm±10nm, 1585nm±10nm, or Custom wavelength			
Configuration Type	1x4 / (4x4)	1x8 / (8x8)	1x16 / (16x16)	1x32 / (32x32)
Insertion loss (Max.)	6.80dB	10.20dB	13.60dB	17.50dB
Uniformity (Max.)	0.70dB	1.0dB	1.20dB	1.40dB
Polarization Dependant Loss (Max.)	0.15dB	0.20dB	0.25dB	0.30dB
Dimensions (mm)	D,S	D,S	E	E

<b>Singlemode Single Window Wideband Tree / Star Coupler</b>				
Operating Wavelength	1310nm±40nm, 1550nm±40nm, 1585nm±40nm, or Custom wavelength			
Configuration Type	1x4 / (4x4)	1x8 / (8x8)	1x16 / (16x16)	1x32 / (32x32)
Insertion loss (Max.)	6.80dB	10.20dB	13.60dB	17.50dB
Uniformity (Max.)	0.80dB	1.20dB	1.60dB	2.0dB
Poralization Dependant Loss (Max.)	0.15dB	0.20dB	0.25dB	0.30dB
Dimensions (mm)	D,S	D,S	E	E

<b>Singlemode Dual Window Wideband Tree / Star Coupler</b>				
Operating Wavelength	1310nm/1550nm ± 40nm, (*1310nm/1550nm ± 20nm), or Custom wavelength			
Configuration Type	1x4 / (4x4)	1x8 / (8x8)	1x16 / (16x16)	1x32 / (32x32)
Insertion loss (Max.)	7.60dB (7.20)*dB	11.50dB (10.80)*dB	15.50dB (14.50)*dB	19.50dB (18.50)*dB
Uniformity (Max.)	1.60dB (1.400)*dB	2.50dB (2.10)*dB	3.40dB (2.80)*dB	4.10dB (3.50)*dB
Poralization Dependant Loss (Max.)	0.15dB	0.20dB	0.30dB	0.50dB
Dimensions (mm)	D,S	D,S	E	E

Note: \* The Spec is for 1xN Coupler only.  
 All values referenced are without connector.

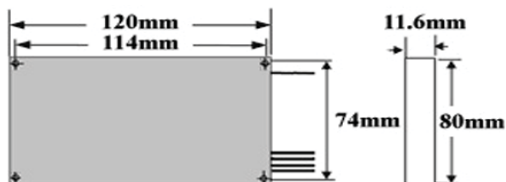
**Ordering Information**

Type	Grade	Wavelength	Coupling Ratio or Attenuation (dB)	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
↓	P = P Grade A = A Grade	85 = 850nm 98 = 980nm 13 = 1310nm 15 = 1550nm 16 = 1580nm 35 = 1310/1550nm 36 = 1310/1585nm	AV = Tree Coupler	0104 = 1x4 ..... 0116 = 1x16 1616 = 16x16 3232 = 32x32	D = Package D E = Package E S = Package S	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							

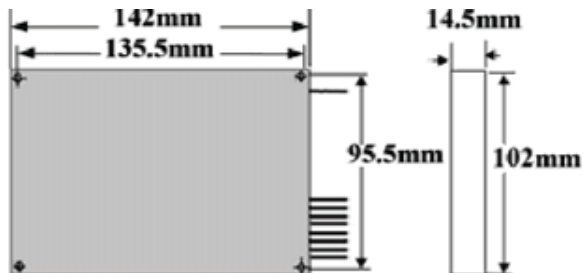
## Package Dimensions & Pigtail Style

### Pigtail Dimensions:

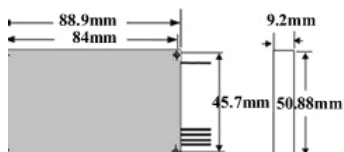
Package D: 11.6mm x 80mm x 120mm



Package E: 14.5mm x 102mm x 142mm



Package S: 9.2mm x 50.88mm x 88.9mm



### Pigtail Style:

Package D, E: 3mm Cable or 900um Loose Tube

Package S: 250um Bare Fiber or 900um Loose Tube