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Multimode Fiber Couplers

Key Features

- Low Insertion loss
- Wide Operating Wavelength
- Compact Size
- Excellent Environmental & Mechanical Stability

Applications

- Local Area Networks
- CATV Systems
- Subscriber Loop
- Fiberoptic Instruments
- Fiber Sensors

Performance Specifications

Parameter	Specifications	
Type	Multimode Standard Fiber Couplers	
Grade	P Grade	A Grade
Central Wavelength	850nm or 1310nm or 1550nm	
Coupling Ratio	50/50%	
Port Configuration	1x2 or 2x2	
Excess Loss (Typ.)	0.5dB (0.8dB)*	0.7dB (1.0dB)*
Insertion loss (Max.)	3.5dB (4.0dB)*	3.7dB (4.2dB)*
Uniformity (Max.)	0.6dB	0.8dB
Directivity (Min.)	35dB	
Operating Temperature	-20 to +75°C (-40 to +85°C Available upon request)	
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber	
Fiber Pigtail Length	1m or Custom on request	
Package Dimensions (mm)	Package M, A, B, C	

Parameter	Specifications	
Type	Multimode 1x3, 1x4 True Fusion Couplers	
Grade	P Grade	A Grade
Central Wavelength	850nm or 1310nm or 1550nm	
Port Configuration	1x3	1x4
Insertion loss (Max.)	6.0dB (6.5dB)*	7.2dB (7.6dB)*
Uniformity (Max.)	1.2dB	
Directivity (Min.)	35dB	
Operating Temperature	-20 to +75°C (-40 to +85°C Available upon request)	
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber	
Fiber Pigtail Length	1m or Custom on request	
Package Dimensions (mm)	Package A, B, C	

Parameter	Specifications		
Type	Multimode Tree / Star Couplers		
Central Wavelength	850nm or 1310nm		
Configuration Type	n x 4 (n=1,2,4,)	n x 8 (n =1,2,8)	n x 16 (n =1,2,16)
Insertion loss (Max.)	7.0dB / 7.6dB*	10.50dB / 11.0dB*	14.0dB / 15.0dB*
Directivity (Min.)	40dB		
Operating Temperature	-20 to +75°C (-40 to +85°C Available upon request)		
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber		
Fiber Pigtail Length	1m or Custom on request		
Package Dimensions (mm)	Package S, D	Package D	Package E

Note: * For 50/125 um, 62.5/125 um fiber operating is at 850nm.
** Measured under the stable mode condition with LED light source (CPR < 12).
All values referenced are without connector.

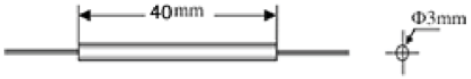
Ordering Information

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 13 = 1310nm 15 = 1550nm	50 = 50/50 30 = 30/70 10 = 10/90 05 = 5/95 01 = 1/99 AV = Tree Coupler	0102 = 1x2 0202 = 2x2 0103 = 1x3 0303 = 3x3 0104 = 1x4 ..... 0116 = 1x16 1616 = 16x16 3232 = 32x32	A = Package A B = Package B C = Package C D = Package D E = Package E M = Package M S = Package S	1 = 250um Bear Fiber 2 = 900um Jacket 3 = 3mm Cable	2 = 50/125 3 = 62.5/125 4 = 100/141 5 = Special	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC X = Special
M = Multimode Fiber Coupler								

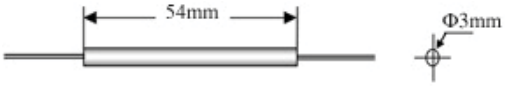
Package Dimensions & Pigtail Style

Pigtail Dimensions:

Package M: 3mm x 40mm Stainless Steel Tube



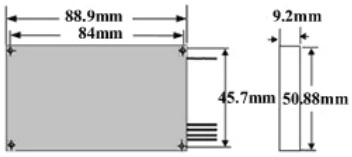
Package A: 3mm x 54mm Stainless Steel Tube



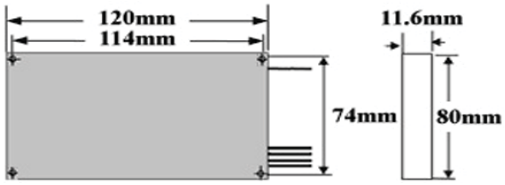
Package B: 3mm x 60mm Stainless Steel Tube

Package C: 8.5mm x14mm x 98mm Case

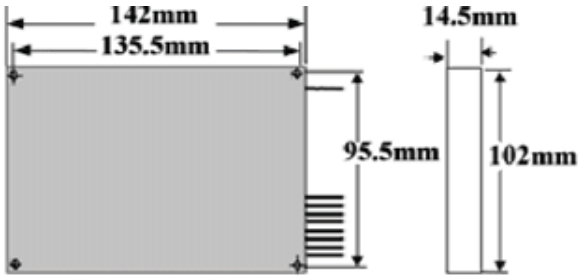
Package S: 9.2mm x 50.88mm x 88.9mm



Package D: 11.6mm x 80mm x 120mm



Package E: 14.5mm x 102mm x 142mm



Pigtail Style:

Package M: 250um Bare Fiber
Package A: 250um Bare Fiber
Package B, S: 250um Bare Fiber or 900um Loose Tube
Package C, D, E: 3mm Cable or 900um Loose Tube

Product specifications and descriptions in this document subject to change without notice.
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