Multimode Fiber Couplers

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

Type	Multimode Standard Fiber Couplers	
Coupling Ratio (%)	50/50	
Grade	P	A
Excess Loss (Typical) (dB)	0.5 (0.8)*	0.7 (1.0)*
Max. Insertion Loss (dB)	3.5 (4.0)*	3.7 (4.2)*
Uniformity (Max.) (dB)	0.6	0.8
Directivity (Min.) (dB)	35	
Central Wavelength (nm)	850 or 1310 or 1550	
Operating Temperatur (°C)	-20 ~ +70 (-40 ~ +85 avaliable upon request)	
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber	
Fiber Pigtail Length (m)	1m or custom request	
Port Configuration	1x2 or 2x2	
Dimensions (mm)	Package M, A,B,C	

Type	Multimode 1 x 3, 1 x 4 True Fusion Couplers	
Port Configuration	1 x 3	1 x 4
Grade	P	P
Max. Insertion Loss (dB)	6.0 (6.5)*	7.2 (7.6)*
Uniformity (Max.) (dB)	1.2	1.2
Directivity (Min.) (dB)	35	
Central Wavelength (nm)	850 or 1310 or 1550	
Operating Temperature (°C)	-20 ~ +70 (-40 ~ +85 avaliable upon request)	
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber	
Fiber Pigtail Length (m)	1m or custom request	
Dimensions (mm)	Package A, B,C	

Note: All values refernced are without connector.

Performance Specifications

Type	Multimode Tree/Star Couplers		
Configuration Type	n x 4 (n=1,2,4,)	n x 8 (n =1,2,8)	n x 16 (n =1,2,16)
Max. Insertion Loss (dB)	7.0/7.6*	10.5/11.0*	14.0/15.0*
Uniformity (Max.) (dB)	1.5	2.0	2.5
Directivity (Min.) (dB)	40		
Central Wavelength (nm)	850 or 1310		
Operating Temperature (°C)	-20 ~ +70 (-40 ~ +85 avaliable upon request)		
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber		
Fiber Pigtail Length (m)	1m or custom request		
Dimensions (mm)	S, D	D	E

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

Ordering Information

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Type	**Grade**	**Wavelength**	**Coupling Ratio or Attenuation (dB)**	**Port**	**Package**	**Pigtail Style**	**Fiber Type**	**In/Out Connector**
M	P A	85=850nm 13=1310nm 15=1550 nm	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=Bare Fiber 2=900um Jacket 3=3mm Cable	2=50/125μm 3=62.5/125μm 4=100/140μm 5=Special fiber	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC X=Special

Dimensions & Pigtail Style

Package 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 x 14mm 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, A: 250um Bare Fiber
Package A, B: 250um Bare Fiber or 900um Loose Tube
Package C: 3mm Cable or 900um Loose Tube
Package D, E: 3mm Cable or 900um Loose Tube
Package S: 250um Bare Fiber or 900um Loose Tube

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