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	A	B
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 (dB)	>35dB	
Operating Wavelength (nm)	600-1600	
Central Wavelength (nm)	850 or 1310	
Operating Temperature	-40℃ - 85℃	
Fiber Type	Corning Multimode 50/125, 62.5/125, 100/140 Fiber	
Fiber Pigtail Length (m)	1m or Custom on Request	
Port Configuration	1x2 or 2x2	
Package Dimension	PackageM, 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 (dB)	>35dB	
Operating Wavelength (nm)	600-1600	
Central Wavelength (nm)	850 or 1310	
Operating Temperature	-40℃ - 85℃	
Fiber Type	Corning Multimode 50/125, 62.5/125, 100/140 Fiber	
Fiber Pigtail Length (m)	1m or Custom on Request	
Package Dimension	PackageA, B,C	

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 (dB)	>40dB		
Operating Wavelength (nm)	600-1600		
Central Wavelength (nm)	850 or 1310		
Operating Temperature	-40℃ - 85 ℃		
Fiber Type	Corning Multimode 50/125, 62.5/125, 100/140 Fiber		
Fiber Pigtail Length (m)	1m or Custom on Request		
Package Dimension	S,D,E		

* For 50/125 um, 62.5/125 um Fiber operating wavelength is at 850nm.
**Measured under the stable mode condition with led light source.

ORDER 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 B	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 F=Package F M=Package M	1=Bare Fiber 2=900um Jacket 3=3mm Cable	2=50/125μ m 3=62.5/125μ m 4=100/140μ m 5=Special fiber	0=none 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC x=Special

*** Type:** M -- Multimode Fiber Coupler

PACKAGE DIMENSIONS & PIGTAIL STYLE

Package Dimensions:

Package M:	3mmx 35mm 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

Back to Product List