

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)	>40dB	
Operating Wavelength (nm)	600-1600	
Central Wavelength (nm)	850 or 1310 or 1550	
Operating Temperature	-40° C - 85° C	
Fiber Type	Corning Multimode 50/125, 62.5/125 Fiber	
Fiber Pigtail Length (m)	1 or Custom on Request	
Port Configuration	1x2 or 2x2	
Package Dimension	Package A,B,C	

*Coupling Ratio/Insertion Loss Conversion Chart

Coupling ratio	Insertion Loss	
	Premium	A Grade
40/60	4.8/2.8	5/3.0
30/70	6/2.0	6.2/2.2
20/80	7.9/1.4	8.1/1.7
10/90	11/1.0	11.5/1.3
5/95	14.5/0.7	15/0.9
2/98	17.5/0.55	18/0.6
1/99	21.2/0.5	22.2/0.72

For 50/125 um, 62.5/125 um Fiber, 50% coupling ratio



Type	Multimode 1X3, 1X4 True Fusion Couplers	
Port Configuration	1x3	1x4
Grade	P	P
Max. Insertion Loss (dB)	6.0 (6.5)*	7.2 (7.6)*
Uniformity (Max.) (dB)	1.2	1.2
Directivity (dB)	>40dB	
Operating Wavelength (nm)	600-1600	
Central Wavelength (nm)	850 or 1310	
Operating Temperature	-40° C - 85° C	
Fiber Type	Corning Multimode 50/125, 62.5/125, 100/140 Fiber	
Fiber Pigtail Length (m)	1 or Custom on Request	
Package Dimension	Package 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 or 1550		
Operating Temperature	-20° C - 70° C		
Fiber Type	Corning Multimode 50/125, 62.5/125 Fiber, 100/140 Fiber		
Fiber Pigtail Length (m)	1m or Custom on Request		
Package Dimension	B, C		

*For 50/125 um, 62.5/125 um Fiber

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

Ordering Information

Type	Grade	Wavelength	Coupling Ratio (dB)	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
M	P	85=850nm	50=50/50	0102=1x2	A=Package A	1=Bare Fiber	2=50/125um	0=None
	A	13=1310nm	30=30/70	0202=2x2		2=900µm Jacket	3=62.5/125	1=FC/APC
	B	15=1550nm	10=10/90	0103=1x3	B=Package B	3=3mm Cable	4=100/140um	2=FC/PC
			05=5/95	0303=3x3	ge B			3=SC/APC
			01=1/99	0104=1x4	C=Package C			4=SC/PC
			AV=Tree Coupler	• •	ge C			5=ST
				• •	D=Package D			6=LC
				0116=1x16	ge D			
				1616=16x16	E=Package E			
				3232=32x32	ge E			

* Type:

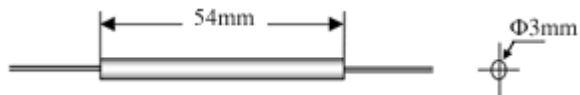
M -- Multimode Fiber Coupler

PACKAGE DIMENSIONS & PIGTAIL STYLE

Package Dimensions:

Package A:

3mm x 54mm stainless steel tube



Package B:

3mm x 60mm stainless steel tube



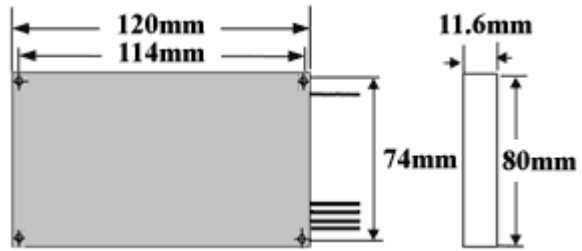
Package C:

8.5mm x 14mm x 98mm case



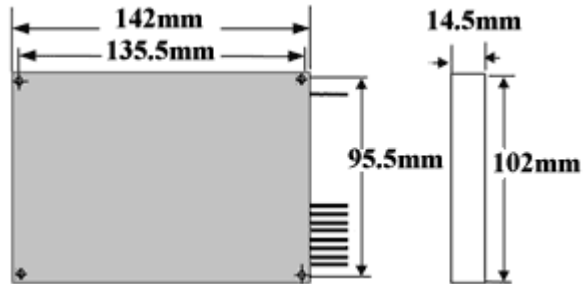
Package D:

11.6mm x 80mm x 120mm



Package E:

14.5mm x 102mm x 142mm



Pigtail Style:

Package A:

250um bare fiber

Package B:

250um bare fiber or 900um loose tube

Package C ~ E:

3mm cable or 900um loose tube