

## Multimode Fiber Optical Coupler

### 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:

Type	Multimode Standard Fiber Couplers	
Coupling Ratio (%)	50/50	
Grade	A	B
Excess Loss (Typical) (dB)	0.4	0.7
Max. Insertion Loss (dB)	3.7	4.0
Uniformity (Max.) (dB)	0.6	0.8
Directivity (Min.) (dB)	35	
Operating Wavelength (nm)	600-1600	
Central Wavelength (nm)	850 or 1310 or 1550	
Operating Temperature (°C)	-20 - +85	
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber	
Fiber Pigtail Length (m)	1 m or custom length	
Port Configuration	1x2 or 2x2	
Dimensions (mm)	Package D, E, F,G	

Type	Multimode 1x3, 1x4 True Fusion Couplers	
Port Configuration	1x3	1x4
Grade	P	P
Max. Insertion Loss (dB)	6.0	7.2
Uniformity (Max.) (dB)	1.2	1.2
Directivity (Min.) (dB)	35	
Operating Wavelength (nm)	600-1600	
Central Wavelength (nm)	850 or 1310	
Operating Temperature (°C)	-40 - +85	
Fiber Type	Corning multimode 50/125, 62.5/125, 100/140 fiber	
Fiber Pigtail Length (m)	1 m or custom length	
Dimensions (mm)	Package E, F, G	

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)	7.5	10.5/11.0	14.0/15.0
Uniformity (Max.) (dB)	1.5	2.0	2.5
Directivity (Min.) (dB)	40dB		
Operating Wavelength (nm)	600-1600		
Central Wavelength (nm)	850 or 1310		
Operating Temperature (°C)	-20 - +85		
Fiber Type	Corning multimode 50/125, 62.5/125 fiber, 100/140 fiber		
Fiber Pigtail Length (m)	1 m or custom length		
Dimensions (mm)	Package E, F, 1, 3	Package 1	Package 2

\*Measured under the stable mode condition with LED light source.

### Package Dimensions & Pigtail Style:

Multimode Fiber Coupler Package Dimensions:	
Package E:	3mm x 54mm stainless steel tube
Package F:	3mm x 60mm stainless steel tube
Package G:	10mm x 20mm x 90mm case
Package 1:	18mm x 80mm x 120mm
Package 2:	14.5mm x 102mm x 142mm
Package 3:	10mm x 80mm x 100mm
Pigtail Style:	
Package 1,2:	2mm,3mm cable or 900um loose tube
Package 3:	900um loose tube

**Nomenclature:**

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