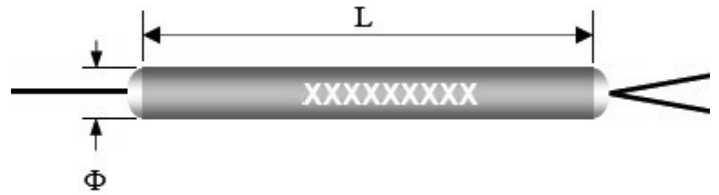




Multimode Optical Fiber Coupler

Multimode fiber couplers are used for multimode fiber LAN systems. DK Photonics builds these Multimode fiber couplers with low insertion loss, high reliability.

The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.



Features

- ◆ Low excess loss
- ◆ Various coupling ratio
- ◆ Compact size

Applications

- ◆ Local area networks
- ◆ CATV systems
- ◆ Subscriber loop
- ◆ Fiber Optic instruments
- ◆ Fiber sensors

Performance Specifications

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

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



*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).

Note: All values referenced are without connector.

Package Information

Package Type	A	B	C	D	E
Fiber Diameter	250µm bare fiber	900µm loose tube	900µm/2mm/3mm loose tube	900µm/2mm/3mm loose tube	900µm/2mm/3mm loose tube
Dimensions (mm)	Φ3.0×54	Φ3.0×60	90×20×9.5	100×80×10.5	120×80×18

Order information

FBT-M-①-②②-③③-④④④④-⑤-⑥-⑦⑦-⑧⑧-⑨⑨

①	②②	③③	④④④④	⑤	⑥	⑦⑦	⑧⑧	⑨⑨
Grade	Wavelength	Coupling Ratio (dB)	Port	Package	Fiber Type	Fiber Diameter	Fiber Length	Connector
P: P Grade A:A Grade	85:850nm 13:1310nm 15:1550nm 83:850nm/1310nm	50:50/50 40:40/60 30:30/70 20:20/80 10:10/90 05:5/95 03:3/97 02:2/98 01:1/99 AV:Tree Coupler XX:Others	0102:1x2 0202:2x2 0103:1x3 0303:3x3 0104:1x4 0116:1x16 1616:16x16	A:Package A B:Package B C:Package C D:Package D D:Package D	1:50/125um 2:62.5/125 3:100/140um X: Others	25:250um 90:900um 20:2.0mm 30:3.0mm XX: Others	05:0.5m 10:1.0m 15:1.5m XX:Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC ST: ST/PC XX: Others