

BUY NOW

2 Micron (μm) Optical Coupler/Splitter

Product Description

The FC2M Series fiber optic coupler is based on fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



Features

- High Reliability
- Low Excess Loss
- High Power
- Low Cost

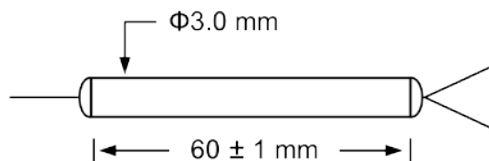
Performance Specifications

FC2M Series	Parameter		Unit
Coupling Ratio	1/99 to 50/50		
Center Wavelength	1950, 2000, 2040		nm
Bandwidth	± 20		nm
Excess Loss	0.3		dB
Insertion Loss	Output1	Output2	
Split Ratio:50/50	< 3.6	< 3.6	dB
Split Ratio:40/60	< 4.8	< 2.8	dB
Split Ratio:30/70	< 6.1	< 2.0	dB
Split Ratio:20/80	< 8.0	< 1.3	dB
Split Ratio:10/90	< 12.0	< 0.8	dB
Split Ratio: 5/95	< 18.4	< 0.5	dB
Split Ratio: 1/99	< 22.0	< 0.3	dB
Uniformity (50/50)	< 1.0		dB
Polarization Dependent Loss	< 0.15		dB
Directivity	> 50		dB
Return Loss	> 55		dB
Optical Power Handling	< 5		W
Operating Temperature	-40~75		$^{\circ}\text{C}$
Storage Temperature	-40~85		$^{\circ}\text{C}$
Package Dimension	Bare fiber 250 μm : (ϕ)3x(L)54-60 0.9mm tube 900 μm : (ϕ)3x(L)77 2/3mm tube 90x16x9		mm

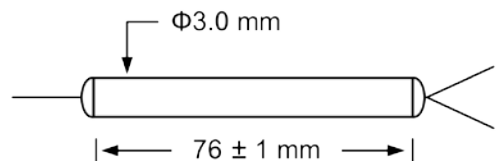
Applications

- Sensors
- Instruments

Mechanical Dimensions (mm)



250 μ m bare fiber



900 μ m loose tube

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

FC2M-	☐	☐	☐	☐	☐	☐	☐	☐
	Coupling Ratio	Center Wavelength	Port	ER ^[2]	Fiber Type	Fiber Jacket	Fiber Length	Connector
	01/99=99 ^[1] 05/95=95 10/90=90 20/80=80 30/70=70 40/60=60 50/50=50 Special=00	1950nm=1 2000nm=2 2040nm=3	1x2=1 2x2=2	19dB=1 20dB=2 22dB=3 24dB=4 25dB=5 26dB=6 ^[3] 27dB=7	SM 1950=1 SM 2000= 2 PM 1950=3 PM 2000=3 SM28=4 ^[4] PM1550=5 ^[4] Special=0	250 μ m=1 0.9mm tube=2 2mm tube =3 3mm tube =4 Special= 0	0.5m =1 1m =2 Special= 0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0

[1] integrated tap monitor is available

[2] polarization extinction ratio is only for PM fiber

[3] high ER is expensive using micro-optic filter with excess loss about 0.8dB

[4] This fiber is lower cost but higher loss