

# 1x4 Fiber Optic Fused Coupler 350 – 2400nm

(single mode, PM)



DATASHEET

BUY NOW



This FC Series fiber optic coupler provides monolithically integrated 1x4 function in a compact format. 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

- Low Excess Loss
- High Power
- Highly Stable & Reliable
- Low Cost

## Specifications

Parameter	Min	Typical	Max	Unit
Center Wavelength	350		2400	nm
Coupling Ratio		1/25		
Polarization Dependent Loss		0.15		dB
Polarization Mode Dispersion (PM)		> 18		dB
Bandwidth <sup>[1]</sup>		± 40		nm
Excess Loss <sup>[2]</sup>	1310,1550 nm	≤ 7.0		dB
	980~1060 nm	≤ 7.2		dB
Uniformity		1		dB
Directivity		> 55		dB
Return Loss <sup>[3]</sup>		> 55		dB
Optical Power Handling <sup>[4]</sup>		< 1		W
Operating Temperature	-40		85	°C
Storage Temperature	-50		85	°C
Package				(L)98x(W)16x(H)9 Box

### Note:

- [1]. For 1310-1550nm. Dual Band 1310/1550 and Triple Band 1310/1490/1550 available
- [2]. Without connector. Each connector adds 0.3dB and 0.5dB for short wavelength
- [3]. Without connector. Each connector adds 5dB
- [4]. 10W version is available

## Applications

- Sensor
- Instrument

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### Ordering Information

Prefix	Wavelength	Grade	Package	Power	Port	Fiber Type	Fiber Cover	Configuration	Connector
FCSM-	1060 = 1 1310 = 3 1550 = 5 980 = 9 1310&1550 = D 1310/1410/1550 = T Special = 0	Standard = 1 Special = 0	Box = 9 Special = 0	1W = 1 10W = 2	1x4 = 1	SM28= 1 SM1950 = 3 PM1550 = 2 PM980 = 9 PM850 = 8 PM400 = 4 Special = 0	900µm = 3 Special = 0	Standard=1 Special=0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0

**NOTE:**

- PM1550 fiber works well for 1310nm