Tunable SM Fiber Coupler

I&Optics' tunable single mode fiber coupler can split any input light into two portions by any wanted splitting ratio or mix two input lights in one or two by any wanted ratio. It features flexible various coupling ratio, low excess loss and low PDL due to our unique technology. It can be used in lasers, LiDARs, telecom, sensors, instruments, testing systems and R&D.

Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x2	2x2
Nominal Center Wavelength	-	nm	1950 , 2000 or Specify	
Wavelength Range	-	nm	+/-40	
Max. Excess Loss	-	dB	0.9, Typ. 0.7	1.2, Typ. 0.9
Nominal Tap Ratio	at Tap Port	%	Tunable from 0.1 to 99	
Max. PDL	at 23℃, CWL	dB	0.15	
Min. Directivity	Port 3 to Port 2 (1x2) or Port 1/(3) to Port 2/(4)	dB	50	
Min. Return Loss	at Center Wavelength	dB	50	
Max. Power Handling Rate	Continuous Wave, Total Power	mW	200 or Specify	
Electrical Tunable Type	-	-	Stepper Motor	
Fiber Type	-	-	SMF-28e or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	℃	-5 to 50	
Storage Temperature	-	℃	-40 to 85	

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, and return loss will 5dB lower. The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions

Detailed Informations And Dimensions Please Contact Us. Customized Design Is Available Upon Request.

Ordering Informations

TSMFC-①-②-③-④-⑤

① - Center Wavelength
95 - 1950nm
20 - 2000nm
SS - Specify

② - Port Configuration
1 - 1x2
2 - 2x2

③ - Connector Type on port 1/2/3/4
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC

④ - Fiber Jacket on Port 1/2/3/4
B - Bare Fiber
L - 900um Loose Tube

⑤ - Fiber Length
0.8 - 0.8m