

1550nm Single Mode Standard Fiber Coupler

Mini



● Product Description

Idealphotonics' mini 1x2 (2x2) single-window broadband fiber couplers provide high performance and high reliability over broadband with precise optical signal splitting ratios in a small or sub-miniature package. These couplers have excellent uniformity, low loss, and very low polarization sensitivity, and are available in a variety of splitting ratios, wavelength ranges, fiber types, and connector options. All devices can handle high optical powers up to 4W and are tested according to industry standard

procedures. Reliability is guaranteed through rigorous testing to fully meet the requirements of Telcordia GR-1221. We can provide custom designs to meet specialized functional applications. We also offer full environmental testing options. This is a special option for fiber optic systems in aerospace grade applications.

- **Product features**

Mini packaging、 Low insertion loss and PDL、 High power handling、
Reliability Guarantee

- **Part Number**

MP-FBC-1550-A-1-50/50-SA

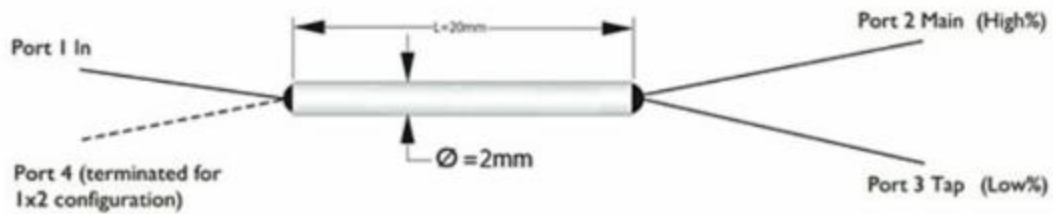
- **Application area**

Signal Monitoring in EDFA、 Network Monitoring、 CATV/Fiber Optic Gyro
System、 local area network、 Test Equipment、 Laboratory research and
development

- **Core parameters**

Wavelength	Bandwidth	Splitting Ratio
1550nm	$\pm 20\text{nm}$	50/50

● Dimension Drawing



● General Parameters

Configuration Specifications		Unit	1×2/2×2	
Type			Single Mode Standard Fiber Coupler Mini (SMMSC)	Single Mode Broadband Single Window Fiber Coupler Mini(SMMWSC)
Working wavelength		nm	980 or 1310 or 1550	980 or 1310 or 1550
Wavelength bandwidth		nm	±20	±40
Maximum insertion loss	50/50	%	3.45/3.45	3.55/3.55
	40/60	%	4.40/2.60	4.60/2.70
	30/70	%	5.80/1.90	6.00/2.00
	20/80	%	7.70/1.30	8.00/1.40

	10/90	%	11.20/0.75	11.40/0.85
	5/95	%	14.20/0.50	14.50/0.55
	2/98	%	18.50/0.36	18.80/0.40
	1/99	%	21.50/0.30	21.80/0.35
PDL		dB	≤0.15	
Return loss		dB	≥50.00	
Directionality		dB	≥55.00	
Operating temperature		Deg.	-5-75	
Storage temperature		Deg.	-40-85	
Fiber length		m	1.00±0.10	
Fiber Type			Clear Curve® XB	
Fiber diameter		um	250	
Package size		mm	2.0×20,2.4×25,2.4×30,3×30	

Note: The parameters do not include connectors, and the connector IL is 0.30dB

Ordering Information :

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Single Mode	Type	Working wavelength	Splitting ratio	Package size mm	Fiber Type	Connectors
Standard	1x2			2.0×20	ClearCurve	none
Coupler Mini	2x2	980	50/50	2.4×25	® XB	LC/UPC
Single Mode		1310	45/55	2.4×30	ofs -16	LC/APC
Broadband		1550	...	3×30	ofs -20	SC/UPC
Single Window		other	1/99	other	HI 1060	SC/APC
Coupler Mini					HI 1060Flex	FC/UPC
					other	FC/APC
						other