

# 1550nm Single Mode Broadband Single Window 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.

## ● Part Number

SMMWSC-1-3-50-1-1-7

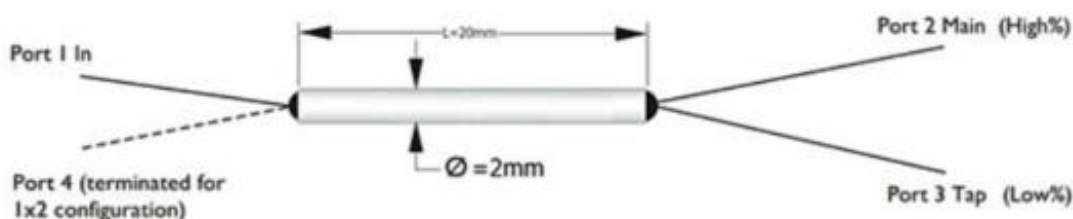
## ● Product features

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

## ● Application area

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

## ● Dimensional Drawing



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:

C	OW	CR	P	FT	C	
SMMSC: Single Mode Standard Coupler Mini	type	Working wavelength	Splitting ratio	Package size mm	Fiber Type	Connectors
	1:1x2			1: 2.0×20	1: ClearCurve® XB	1: none
	2:2x2	1:980	50:50/50	2: 2.4×25		2: LC/UPC
SMMWSC: Single Mode Broadband Single Window Coupler Mini		2:1310	45:45/55	3: 2.4×30	2: ofs -16	3: LC/APC
		3:1550	...	4: 3×30	3: ofs -20	4: SC/UPC
		7: other	01:1/99	5:other	4: HI 1060	5: SC/APC
					5: HI 1060Flex	6: FC/UPC
					6: other	7: FC/APC
						8: other