

1x2 and 2x2 Single mode Filter Coupler



FEATURES

Super Flat Spectrum
Wide Bandwidth
Various Coupling Ratio

APPLICATION

CATV Systems and Fiberoptic Sensors
Local Area Network
OCT System and Fiber Instrument

PERFORMANCE SPECIFICATIONS

Parameter		Specifications					
Operating Wavelength		Single window 850, 980, 1310, 1550nm, or custom		Dual window 1310/1550nm, or custom		Wideband 1260~1620nm	
Band		±50nm		1310±50 & 1550±50nm		360nm	
Type		1x2	2x2	1x2	2x2	1x2	2x2
Insertion Loss (Max)	Coupling ratio:** 50/50%	3.6/3.6dB	3.9/3.9dB	3.8/3.8dB	4.1/4.1dB	4.1/4.1dB	4.4/4.4dB
	10/90%	11/1.0dB	11.3/1.3dB	11.5/1.2dB	11.8/1.5dB	12/1.4dB	12.3/1.7dB
	5/95%	14.7/0.80dB	15/1.1dB	15.2/1.0dB	15.5/1.3dB	15.7/1.2dB	16/1.5dB
	2/98%	18.5/0.70dB	18.8/1.0dB	19/0.90dB	19.3/1.2dB	19.5/1.1dB	19.8/1.4dB
	1/99%	21.8/0.60dB	22.1/0.90dB	22.3/0.80dB	22.6/1.1dB	22.8/1.0dB	23.1/1.3dB
WDL (Low ratio port) / (High ratio port)	Coupling ratio:** 50/50%	≤ 0.30/0.30dB	≤ 0.30/0.30dB	≤ 0.40/0.40dB	≤ 0.40/0.40dB	≤ 0.50/0.50dB	≤ 0.50/0.50dB
	10/90%	≤ 1.3/0.25dB	≤ 1.3/0.25dB	≤ 1.4/0.30dB	≤ 1.4/0.30dB	≤ 1.5/0.35dB	≤ 1.5/0.35dB
	5/95%	≤ 1.6/0.25dB	≤ 1.6/0.25dB	≤ 1.7/0.30dB	≤ 1.7/0.30dB	≤ 1.8/0.35dB	≤ 1.8/0.35dB
	2/98%	≤ 2.4/0.20dB	≤ 2.4/0.20dB	≤ 2.5/0.25dB	≤ 2.5/0.25dB	≤ 2.6/0.30dB	≤ 2.6/0.30dB
	1/99%	≤ 2.4/0.20dB	≤ 2.4/0.20dB	≤ 2.5/0.25dB	≤ 2.5/0.25dB	≤ 2.6/0.30dB	≤ 2.6/0.30dB
PDL* (High ratio port)		≤ 0.05dB					
PDL* (Low ratio port)		≤ 0.20dB					
Return Loss		≥ 55dB					
Optical Power***		≤ 500mW					
Operating Temperature		- 5 to +70°C					
Storage Temperature		- 40 to +85°C					
Fiber Type		See Ordering information					
Package Dimensions		Φ5.5xL34mm for 1x2 250um bare fiber, Φ5.5xL38 for 1x2 900um jacket Φ5.5xL38mm for 2x2 250um bare fiber, Φ5.5xL42 for 2x2 900um jacket					

Note:

*PDL: Polarization dependent loss

**Other coupling ratios are available upon request

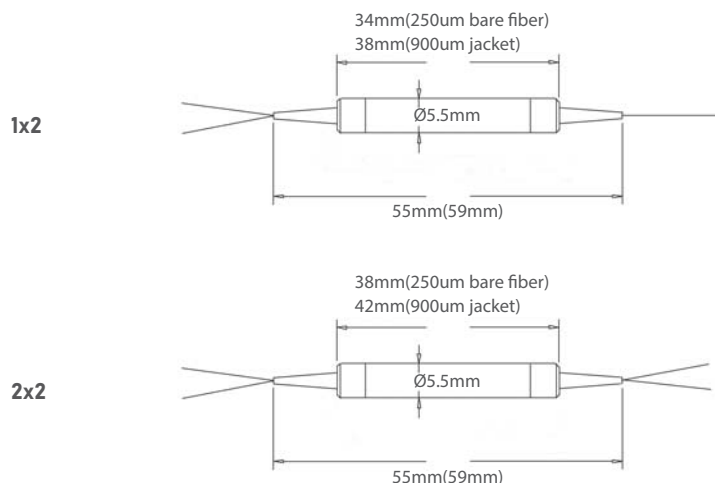
***Other optical power levels are available upon request

All values referenced are without connector.

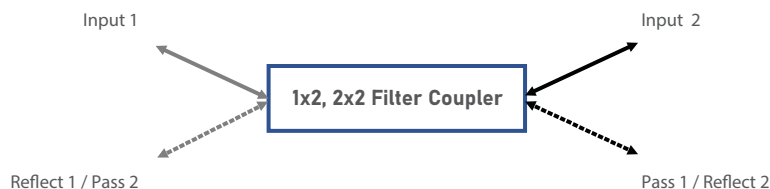
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MECHANICAL DIMENSIONS

A=A Package



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Coupling Ratio	Port	Package	Fiber Type*	Pigtail Style	Fiber Length**	In Connector	Out Connector
SMFC	85=850nm	50 = 50:50	102=1x2	A= A package	2=SMF-28 Ultra (G.657.A1)	1=Bare fiber	05=0.5m	0= None	0= None
	98=980nm	10=10:90	202=2x2			2=900um	10=1.0m	1= FC/APC	1= FC/APC
	31=1310nm	05 =5:95			3=ClearCurve ZBL(G.657.B3)	loose tube	·	2= FC/PC	2= FC/PC
	55=1550nm	02=2:98					·	3= SC/APC	3= SC/APC
	3155=1310/1550nm	01=1:99			4= HI780		·	4= SC/PC	4= SC/PC
	FB=Full Band				5= HI980		20=2.0m	5= ST	5= ST
					6= HI1060			6= LC/UPC	6= LC/UPC
					7= HI1060 Flex			7= LC/APC	7= LC/APC

*1=SMF-28(G.652) is available upon request.

**Other length is available upon request, However, 900µm loose tube is only up to 2m.

RELATED PRODUCTS

[Single Mode Coupler](#)

[Multi-mode Coupler](#)

[PM Coupler](#)