

Fused Optical Coupler 熔融拉锥单模耦合器

1、Product Identification 产品识别

Table 1: Product Identification

Ratio(%)	Operating Band (nm)	Customer PN	Vendor PN	Ordering Description	Size (mm)
01/99	1550±20				2.4x25
02/98	1550±20				2.4x30
05/95	1550±20				2.4x30
0.5/99.5	1550±20				2.4x30

2、OPTICAL SPECIFICATION 性能规范

Table 2: Optical Specification for 2.4x25

Configuration		Unit	Single Mode Standard Coupler(SSC)			
Type						
Operating Bandwidth		nm	1550±40nm		1550±20nm	
Max Insertion Loss	1/99	%	0.32	19~21	0.28	19~21
	2/98	%	0.38	16~18	0.33	16~18
	5/95	%	0.53	12~14	0.48	12~14
	10/90	%	0.80	9~11	0.75	9~11
	50/50	%	3.50	3.50	3.45	3.45
Max Polarization Dependent Loss	1/99	dB	0.10	0.15	0.10	0.15
	2/98		0.10	0.15	0.10	0.15
	5/95		0.10	0.15	0.10	0.15
	10/90		0.12	0.15	0.12	0.15
	50/50		0.15	0.15	0.15	0.15
Max Wavelength Dependent Loss	1/99	dB	0.15	0.35	0.15	0.30
	2/98		0.15	0.35	0.15	0.30
	5/95		0.15	0.35	0.15	0.30
	10/90		0.20	0.35	0.20	0.30
	50/50		0.35	0.35	0.30	0.30
Return Loss		dB	≥50.00			
Directivity		dB	≥55.00			
Operating Temperature		Deg	-5~+75			
Storage Temperature		Deg	-40~+85			
Fiber Length		m	1.00±0.10			
Fiber Type			Corning SMF 28 Ultra 200kpsi			
Fiber Diameter		um	250			
Package		mm	2.4×25			

NOTE :The parameters do not include connector, connector IL is 0.30dB

Table 3: Optical Specification for 2.4x30 or 3.0x30

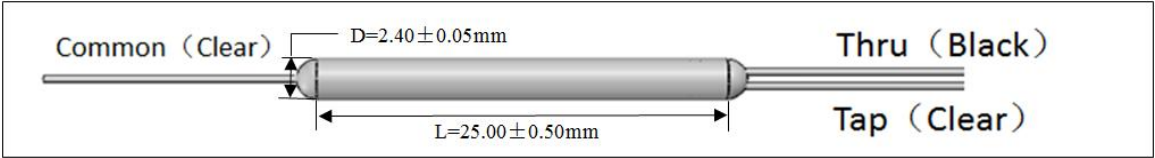
Configuration		Unit	Single Mode Standard Coupler(SSC)			
Type						
Operating Bandwidth		nm	1550±40nm		1550±20nm	
Max Insertion	0.5/99.5		/	/	0.20	21~27
	1/99	%	0.25	19~21	0.20	19~21
	2/98	%	0.30	16~18	0.25	16~18

Loss	5/95	%	0.45	12~14	0.40	12~14
	10/90	%	0.70	9~11	0.65	9~11
	50/50	%	3.45	3.45	3.40	3.40
Max Polarization Dependent Loss	0.5/99.5		/	/	0.10	0.25
	1/99	dB	0.10	0.15	0.10	0.15
	2/98		0.10	0.15	0.10	0.15
	5/95		0.10	0.15	0.10	0.15
	10/90		0.12	0.15	0.12	0.15
	50/50		0.15	0.15	0.15	0.15
Max Wavelength Dependent Loss	0.5/99.5		/	/	0.10	0.80
	1/99	dB	0.15	0.30	0.15	0.20
	2/98		0.15	0.30	0.15	0.20
	5/95		0.15	0.30	0.15	0.20
	10/90		0.20	0.30	0.20	0.20
	50/50		0.30	0.30	0.20	0.20
Return Loss		dB	≥50.00			
Directivity		dB	≥55.00			
Operating Temperature		Deg	-5~+75			
Storage Temperature		Deg	-40~+85			
Fiber Length		m	1.00±0.10			
Fiber Type			Corning SMF 28 Ultra 200kpsi			
Fiber Diameter		um	250			
Package		mm	2.4×30、3.0×30			

NOTE :The parameters do not include connector, connector IL is 0.30dB

3、Apperance Drawing 示意图

Fig 1: Apperance Drawing



4、Product Ordering Guide 产品订购指南

XXXX	X	X	XX	X	X	X	X
SSC:	Configuration	Operating	Coupler	Fiber	Package	Fiber Type	Connector
Single Mode Standard Coupler	1:1×2	Wavelength	Ratio	diameter	1: 2.4×25	1:SMF-28@ Ultra	1:none
		1:980	50:50/50	1:250um	2: 2.4×30		2:LC/UPC
	2:2×2		2:1550	45:45/55	3: 3.0×30	2:ofs-16	3:LC/APC
						3:ofs-20	4:SC/UPC
	01:1/99					4:HI 1060	5:SC/APC
						5:HI 1060Flex	6:FC/UPC
						6:other	7:FC/APC
							8:other