



## 1x2(2x2) Mini Size Single Mode Fused Coupler (FSMC, FWBC, DWFC)

### Specifications:

Type		FSMC		FWBC		DWFC	
Grade		Grade P	Grade A	Grade P	Grade A	Grade P	Grade A
Operating wavelength (nm)		1310+/-15 or 1550+/-15		1310+/-40 or 1550+/-40		1310+/-40&1550+/-40	
Typical excess loss (dB)		0.07	0.1	0.07	0.1	0.15	0.20
Insertion loss (dB)	50/50	≤3.5	≤3.7	≤3.6	≤3.8	≤3.7	≤3.9
	40/60	≤4.5/2.7	≤4.8/2.9	≤4.6/2.8	≤4.9/3.0	≤4.7/2.8	≤5.0/3.0
	30/70	≤5.8/2.0	≤6.1/2.1	≤5.9/2.1	≤6.3/2.2	≤6.1/2.1	≤6.4/2.2
	20/80	≤7.7/1.25	≤8.0/1.3	≤7.8/1.3	≤8.2/1.4	≤8.0/1.3	≤8.4/1.4
	10/90	≤11.2/0.7	≤11.8/0.85	≤10.9/0.75	≤11.2/0.85	9.25~11.25/0.7	≤8.80~11.65/0.85
	5/95	≤14.5/0.45	≤15.0/0.55	≤14.5/0.5	≤15.0/0.55	≤12.10~14.40/0.5	≤11.60~14.90/0.55
	3/97	≤16.3/0.4	≤16.8/0.45	≤16.4/0.4	≤16.8/0.45	14.15~16.75/0.4	≤13.60~17.30/0.45
	2/98	≤18.5/0.3	≤19.2/0.35	≤18.3/0.35	≤18.75/0.4	≤15.80~18.70/0.35	≤15.15~19.30/0.4
	1/99	≤21.5/0.25	≤22.2/0.3	≤21.4/0.3	≤21.9/0.35	≤18.65~21.85/0.3	≤17.95~22.55/0.35
PDL (dB)		≤0.10	≤0.15	≤0.10	≤0.15	≤0.15	≤0.20
Directivity (dB)		≥55		≥55		≥55	
Operating temperature (°C)		-40 ~ +85					
Storage temperature(°C)		-40 ~ +85					
Port		1x2 or 2x2					
Package		Φ2.4×L22 or Φ2.4×L25 or Φ2.4×L30 Φ3.0×L35 or Φ2.4×L18					
Fiber Type		SMF-28e or RC80 SM1550					
Pigtail type		250μm bare fiber or 165um bare fiber					

### Ordering Information

Product	Wavelength	Port	CR	Grade	Package	Fiber	0	Pigtail Type	Length	Connector
FSMC	31=1310	1=1x2	1=1/99	P=	4=φ3.0×L35	0=S		0=250um	H=0.5m	0=None
FWBC	55=1550	2=2x2	2=2/98	P	5=φ2.4×L30	MF-2		bare fiber	8=0.8m	1=FC/UPC
DWFC			3=3/97	A=	7=φ2.4×L25	8e		4=RC	1=1.0m	2=FC/APC
			5=5/95	A	8=φ2.4×L22	7=		80um Bare	S=Other	3=SC/APC
			A=10/90		9=φ2.4×L18	RC8		fiber.		4=SC/UPC
			B=20/80		S=Other	0				5=ST/PC
			C=30/70			SM1				6=LC/PC
			D=40/60			550				7=LC/APC
			E=50/50							S=Others
			S=Other							