

1xN Monolithic Single Mode Fused Coupler (FSMC,FWBC, DWFC, TWFC)

Features:
Low insertion loss Low PDL High stability and reliability
Application:
Fiber Communication/Access Network Fiber Sensor Fiber Laser

Specifications:

Parameter \ Type	1x3 FSMC		3X3 FSMC		1X3 FWBC		3X3 FWBC		1X3 DWFC	
Operating Center wavelength (nm)	1310 or 1550 or1650				1310 or 1550				1310&1550	
Operating bandwidth (nm)	+/-15				+/-40				+/-40	
Grade	P	A	P	A	P	A	P	A	P	A
Typical excess loss (dB)	0.1	0.15	0.1	0.15	0.1	0.15	0.1	0.15	0.1	0.15
Insertion loss(dB)	≤5.4	≤5.7	≤5.6	≤5.8	≤5.6	≤6.0	≤5.8	≤6.2	≤5.8	≤6.2
PDL(dB)	≤0.20	≤0.25	≤0.25	≤0.30	≤0.20	≤0.25	≤0.25	≤0.30	≤0.25	≤0.30
Uniformity(dB)	≤0.80	≤1.2	≤1.0	≤1.4	≤1.0	≤1.4	≤1.3	≤1.6	≤1.2	≤1.5
Directivity (dB)	≥55									
Operating temperature (°C)	-40 ~ +85									

parameter \ Type	1X4 FSMC				1X4 FWBC				1X4DWFC				1X4TWFC			
	Normal size		Mini Size		Normal size		Mini Size		Normal size		Mini Size		Normal size		Mini Size	
Operating CW (nm)	1310 or 1550								1310 &1550				1310 &1490&1550			
Operating bandwidth (nm)	+/-15				+/-40				+/-40				1310 +/-40&1490+/-10&1550+/-40			
Grade	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
Typical excess loss (dB)	0.15	0.25	0.15	0.25	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4
Insertion loss(dB)	≤7.0	≤7.4	≤7.2	≤7.5	≤7.1	≤7.4	≤7.2	≤7.5	≤7.2	≤7.5	≤7.3	≤7.7	≤7.2	≤7.5	≤7.3	≤7.7
PDL(dB)	≤0.20	≤0.25	≤0.25	≤0.35	≤0.20	≤0.25	≤0.25	≤0.35	≤0.25	≤0.30	≤0.25	≤0.35	≤0.25	≤0.30	≤0.25	≤0.35
Uniformity(dB)	≤1.0	≤1.4	≤1.2	≤1.5	≤1.2	≤1.6	≤1.4	≤1.8	≤1.4	≤1.8	≤1.5	≤2.0	≤1.4	≤1.8	≤1.5	≤2.0
Directivity (dB)	≥55															
Operating temperature (°C)	-40 ~ +85															

***The above spec.is for device without connector.**

Package Information

Configuration			1x3 or 3x3	1x4
Fiber length			1m, others on request	
Fiber Type			SMF-28e or YOFC RC80 SM155	
Dimensions(φ×L)(mm)	250μm bare fiber	Normal size	φ3.0×L54	
		Mini Size	φ3×L40;φ3.0×L35;φ2.4×L30	
	900um loose tube	φ3.0×L60		

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CAT0602 REV02

Ordering Information

Product	Wavelength	Port	CR	Grade	Package	Fiber	0	Pigtail Type	Length	Connector
FSMC	31=1310	3=1x3	E=E	P=P	1=φ3.0×L54	0=S		0=250um	H=0.5	0=None
FWBC	55=1550	4=1x4	VEN	A=A	2=φ3.0×L40	MF-2		bare fiber	m	1=FC/UPC
DWFC	35=1310/1	6=3x3			3=φ3.0×L60	8e		1=900um	8=0.8	2=FC/APC
TWFC	550				4=φ3.0×L35	7=		loose	m	3=SC/APC
	SS=Other				5=φ2.4×L30	RC8		tube	1=1.0	4=SC/UPC
					6=φ4.0×L65	0		4=RC	m	5=ST/PC
					7=φ2.4×L25	SM1		80um	5=1.5	6=LC/PC
					S=Other	550		Bare fiber.	m	7=LC/APC
									2=2.0	8=E2000
									m	APC
									3=3.0	S=Others
									m	