


1xN or NXN Monolithic Single Mode Fused Coupler 文件编 ZF/ZY7.1-002

Features Low excess loss & low IL Low PDL High stability and reliability Application Optical communication systems CATV FTTH/PON	
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Specifications:

Type	1x3 SSFC		3X3 SSFC		1X3 WBFC		3X3 WBFC		1X3 DWFC	
Operating Center wavelength (nm)	1310 or 1550 or 1650				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									

Type	1X4 SSFC				1X4 WBFC				1X4DWFC		1X4TWFC	
	Normal size		Mini Size		Normal size		Mini Size		Normal size		Normal 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
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
Insertion loss(dB)	≤7.0	≤7.4	≤7.2	≤7.5	≤7.1	≤7.4	≤7.2	≤7.5	≤7.5	≤7.7	≤7.5	≤7.7
PDL(dB)	≤0.20	≤0.25	≤0.25	≤0.35	≤0.20	≤0.25	≤0.25	≤0.35	≤0.25	≤0.35	≤0.25	≤0.35
Uniformity(dB)	≤1.0	≤1.4	≤1.2	≤1.5	≤1.2	≤1.6	≤1.4	≤1.8	≤1.5	≤2.0	≤1.5	≤2.0
Directivity (dB)	≥55											
Operating temperature (°C)	-40 ~ +85											

*The above spec.is for device without connector.

* Other spec. can be made on customer request.

Package Information

Configuration	1x3 or 3x3			1x4		
Fiber length	1m, others on request					
Fiber Type	SMF-28e or RC80 SM1550 (长飞)					
Dimensions(φ×L)(mm)	250μm bare fiber	Normal size	φ3.0×L54(D)			
		Mini Size	φ3.0×L35 (F) ;φ2.4×L30 (H)			
	900um loose tube	Φ4.0×L60 (C)			Φ4.0×L65 (B)	

*** Other package dimensions can be made on customer request.



Ordering Information

Device Name	Wavelength	Port Type	Coupling Ratio	Grade	Package	Fiber type	Type	0	Pigtail Type	Length	Connector
SSFC FWBC DWFC TWFC	3=1310nm 5=1550nm 0=1310&1550nm 1=1310&1490&1550nm	3=1x3 4=1x4 6=3*3 	E=EV EN	P=Pgrade A=Agrade	A=(Φ4*L75) B=(Φ4*L65) C=(Φ4*L60) D=(Φ3*L54) E=(Φ3*L40) F=(Φ3*L35) G=(Φ3*L30) H=(Φ2.4*L30) Q=(Φ4*L70)	0=SMF-28e 1=RC80 SM1550 (长飞)	N=Normal size M=Mini size	0	1=250um bare fiber 2=900um loose tube 8=RC 80um Bare fiber.	H=0.5M 8=0.8M 1=1.0M 5=1.5M 2=2.0M A=2.5M 3=3.0M 4=4.0M	0=None 1=FC/UPC 2=FC/APC 3=LC/UPC 4=LC/APC 5=SC/UPC 6=SC/APC