

SR0048 REV01

Single Mode Fused Coupler

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Spec. Number	SR0048 REV01	N/A
Date	2016-11-24	2016-11-24
Part Number	SMFC5511E100110	NA

Specifications

Туре	1 ×2 1/99 Coupler			
Parameter				
Operating wavelength (nm)	1527~1566			
Insertion Loss(Over the whole wavelength range) (dB)	≤0.20@99% port, 18.5~20.5@1% port			
Excess loss (dB)	≤0.15			
Polarization Dependent Loss (dB)	≤0.05@99% port, ≤0.20@1% port			
Wavelength dependent loss (dB)	≤0.10@99% port, ≤0.20@1% port			
Temperature Dependent Loss (dB)	≤0.20			
Directivity (dB)	≥55			
Return loss (dB)	≥50			
Optical Power (mW)	≤500			
Fiber Type	Corning SMF-28			
Operating temperature (°C)	-5~ +75			
Storage temperature (°C)	-40 ~ +85			
Dimensions (mm)	Ф3.0×L45			

^{*}Above specifications are for devices without the connectors.

Notes:

- 1. The wavelength dependent loss is the difference between maximum insertion loss and minimum insertion loss over the whole work wavelength range.
- 2.WDL@tap port is calculated as IL(λ 1, fit curve)-IL(λ N, fit curve), λ 1 is the shortest wavelength, λ N is the longest wavelength. Fit curve is obtained by using the functions of SLOPE and INTERCEPT in excel based on measured IL.
- 3. Temperature Dependent Loss is defined as the insertion loss variation over the whole working temperature range.
- 4. The 1000 hours reliability report for 85 °C, 85%RH or 75 °C,90%RH should be provided.
- 5. The tap fiber should be all colored black.

Ordering Information:

Ordering information.											
SMFC	Wavelengt	Port	Coupli	Package	Fiber	00	Pigtail Type	Length	Connector	Customer	
	h	Type	ng		Type						
			Ratio								
	55=1527~	1=1*2	1=1/99	E=	1=SMF-	00	1=250um	H=0.5m	0=None	Customer	
	1566nm			(Ф3.0×	28e		bare fiber	8=0.8m	1=FC/UPC		
				L45)			2=900um	1=1.0m	2=FC/APC		
							loose tube	5=1.5m	3=LC/UPC		
							3=3mm	2=2.0m	4=LC/APC		
							loose tube	3=3.0m	5=SC/APC		
							4=2mm	4=4.0m	6=SC/UPC		
							loose tube	A=2.5m			
								B=5.0m			