

FUSED PRODUCTS

SINGLE MODE FIBER COUPLER 1X2

(50/50)



SENKO's Single Mode Fiber Couplers are highly stable for multi-port optical signal splitting with low insertion loss. All devices are qualified according to industry standard test procedures.

PARAMETERS	VALUES	UNIT
Type	1x2	
Coupling Ratio	50/50	
Insertion loss Max. ^{1,2}	See below Table	
Uniformity Max.	See below Table	
Return loss Min. ²	55	dB
Directivity Min.	55	dB
PDL Max.	See below Table	
WDL Max. ³	See below Table	
TDL at -5~70°C Max.	0.15	dB
Housing dimension	250μm fiber 3.0 (Φ) x 54 (L) 900μm tube 3.0 (Φ) x 54 (L) 2mm/3mm tube, ABS Box: 90(L)x20(W)x10(H)	mm
Fiber Type	SMF-28e 250μm bare fiber	
Operating temperature	-40 ~ +85	°C
Storage temperature	-40 ~ +85	°C

Note:

1. The performance are not including the Connectors.
2. IL are worst case including PDL, TDL, and WDL.
3. WDL means IL change over Single wavelength band. Only for each window band, not including water peak band.

	IL (dB) TYP. / MAX.	PDL (dB) MAX.	UNIFORMITY (dB) MAX.	WDL(dB) MAX.
Full Wavelength Band (1260~1620 nm)	3.8 / 4.5	0.3	1.2	NA
3 Wavelength Band (1310/ 1550 ±40 and 1490 ±10 nm)	3.4 / 3.7	0.2	0.8	0.5
Dual Wavelength Band (1310/1550 ± 40 nm)	3.3 / 3.6	0.15	0.7	0.3
Single Wavelength Band (1310±40 or 1550 ±40 nm)	3.2 / 3.4	0.15	0.6	0.2

CODE	PORT		WAVELENGTH		COUPLING RATIO		JUMPER TYPE		CONNECTOR		FIBER LENGTH	
PD-FC-SM	1	1X2	31	1310	50	50/50	b	250μm	0	None	10	1.0m
	2	2X2	55	1550			9	900μm	1	SC/UPC	15	1.5m
			DU	1310/1550			2	2mm	2	SC/APC		
			TR	1310/1490/1550			3	3mm	3	FC/UPC		
			FU	full					4	FC/APC		
									5	LC/UPC		
									6	LC/APC		
									7	MU/UPC		

ORDER CODE example:

PD-FC-SM-1-31-50-9-1-10

APPLICATIONS

- Telecommunications
- Network Monitoring
- FTTX

FEATURES

- High Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant