

# 1700nm Wide Band Fused Fiber Coupler for OCT

SPEC SHEET

### Key Features

- Available for any center wavelength, band width, coupling ratio
- Wide operating wavelength range and excellent flatness
- Available for various fiber options
- High stability of SOP against temperature \*SOP: State of Polarization

### **Optical Specifications**

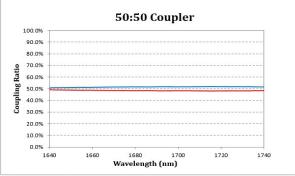


Parameter	Unit	Value
Center Wavelength	nm	1700
Operating Wavelength Band Width	nm	±60
Max. Excess Loss	dB	0.2
Min. Retern Loss	dB	50 (Typ. ≧ 55 dB)
Min. Directivity	dB	50 (Typ. $\geq$ 55 dB)
Fiber Type	-	Single mode fiber (Standard: Corning SMF28e+)
Operating Temperature	°C	-5 to +75
Storage Temperature	°C	-40 to +85

	Coupling Ratio	Grade	Coupling Ratio	Signal Path (1x2: P1 $\rightarrow$ P3)			Tap Path (1x2: P1 $\rightarrow$ P4)		
			Tolerance	(2x2: P1→P3, P2→P4) Insertion Loss			(2x2: P1→P4, P2→P3) Insertion Loss		
50	%	A P	± 5.0 % ± 3.5 %	VII VII	3.7 3.5	dB dB	VII VII	3.7 3.5	dB dB
30	%	A P	$     \pm 4.0 \% $ $     \pm 3.0 \% $		2.0 1.9	dB dB		6.1 5.9	dB dB
20	%	A P	$     \pm 3.5 \% $ $     \pm 2.5 \% $	VII VII	1.4 1.3	dB dB	VII VII	8.0 7.8	dB dB
10	%	A P	± 3.0 % ± 2.0 %	VII VII	0.8 0.8	dB dB	VII VII	11.7 11.2	dB dB
1	%	A P	$     \pm 0.6 \%   $ $     \pm 0.5 \% $	VII VII	0.3 0.3	dB dB	VII VII	24.2 23.2	dB dB

\*Custom-designed parts available.

#### **Typical Optical Specifications**



A sample of 1700  $\pm\,60$  m, Master Grade Coupler



## How to read the specification sheet

