

1550±100nm OCT Broadband 1x2 2x2 SM Fiber Fused Coupler

1550±100nm OCT Broadband 1x2 2x2 SM Fiber Fused Coupler is special designed for OCT application, it's built with fused biconical taper (FBT) technology, optical signal power can be splitted into two parts with even or various coupling ratio by the FBT Coupler, it's widely used in Optical Coherence Tomography and Optical Diffraction field.

Application:

OCT
Fiber Optic Sensor
Optical Diffraction System
Lab & Research

Features:

Wide Band
Low Excess Loss
High Return Loss
High Reliability



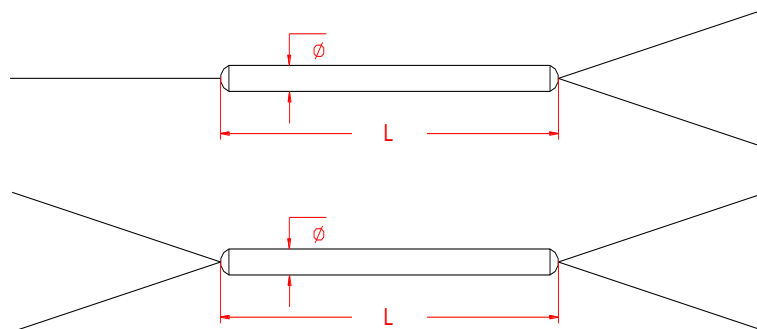
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1550	nm
Bandwidth	BW	±100	nm
Max. Excess Loss	EL	0.5	dB
Max. Insertion Loss	50/50	3.8/3.8	dB
	40/60	5.0/3.0	dB
	30/70	6.4/2.2	dB
	20/80	8.2/1.7	dB
	10/90	11.7/1.0	dB
	5/95	14.8/0.8	dB
	3/97	19.0/1.05	dB
	2/98	18.0/0.9	dB
1/99	22.1/0.6	dB	
Max. Polarization Dependent Loss	PDL	0.2	dB
Min. Directivity		55	dB
Min. Return Loss	RL	50	dB
Fiber Type		Corning SMF-28e fiber	-
Max. Tensile Load		5	N
Max. Optical Power (CW)	P	2	W
Operating Temperature	T	-40~75	°C
Storage Temperature	T	-40~85	°C
Package Dimension		Φ3.0xL54	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):**SMBFUC-*WWW*-*PP*-*RR*-*J*-*LL*-*CC***

WWW	PP	RR	J	LL	CC
Wavelength	Port	Coupling Ratio	Fiber Jacket	Fiber Length	Connector
1550 - 1550nm	12 - 1x2 22 - 2x2	01 - 1/99 02 - 2/98 03 - 3/97 05 - 5/95 10 - 10/90 20 - 20/80 30 - 30/70 40 - 40/60 50 - 50/50 SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 08 - 0.8m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SS - Specify