

850±50nm OCT Broadband 1x2 2x2 SM Fiber Fused Coupler

850±50nm 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



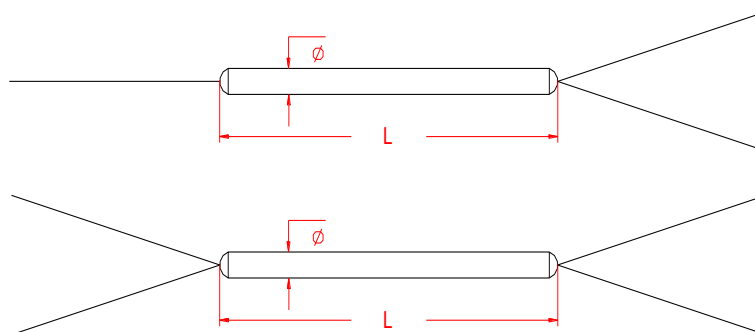
Specification:

Parameter		Symbol	Value	Unit
Center Wavelength		λ	850	nm
Bandwidth		BW	±50	nm
Max. Excess Loss		EL	0.3	dB
Max. Insertion Loss	50/50	IL	3.9/3.9	dB
	40/60		5.1/3.1	dB
	30/70		6.5/2.3	dB
	20/80		8.3/1.8	dB
	10/90		11.7/1.2	dB
	5/95		14.8/0.9	dB
	3/97		19.0/1.05	dB
	2/98		18/0.9	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 HI 780 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
850 - 850nm	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